

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
4751	35119	A	4792	3	1426	RRYDELQNSSGRDGKPRAMAV TRSTSSTSSGSNSNVLVPVSWK RPQYSQKRAKEKLVHVLSLCG QEVGLSKNPSVIFSSCGDLDLLE HQTSLVSSDGAREQENMDDT NSEQQFRVFRDFDFLDVELEDG EELQGESMDNFWGVRRLSLD SLDKCDMQILEERQLSGSTPSL NKMHHEDFDESSEEDLTASQI LEHSDLIMTLSPSEETNPMELLT TACDSTPPEPHSFNTRMSSFDAS LPDMNNLQISEGSKAEAVREE EDTTVHEDDLSSSINELPAAFEC SDSFSLDMTEGEEKGNRALDQF TLASFGEGRGVSPPPSPFFSAI LAAFQPAACDDAEEAWRSHIN QLMCDSDGSCAVYTFHVSSLF KNIQKRFCFLTCDAAASYLGDNL RGIGSKFVSSQMLTSCSLDKL KFSVLELQEYLDTYNNRKEATL SWLANCKATFAGGSRDGVITC QPGDSEEKVIKAC
4752	35120	C	4793	60	164	
4753	35121	B	4794	44	2547	
4754	35122	A	4795	401	9546	PRADITTCDRRITPGTCRPLPV LPASLYAADMASQQDSGFFEISI KYLLKSWNTSPVGNGYIKPPV PPASGTHREKGPPTMLPINVDP DSKPGEYVLKSLFVNFTTQAER KIRIIMAEPLKPLTKSLQRGED PQFDQVISSMSSLSEYCLPSILRT LFDWYKRQNGIEDESHEYRPT SNKSKSDEQQRDYLMEERRDLAI DFIFSLVLIIEVLKQIPLHPVIDSLI HDVINLAFKHFKYKEGYLGPNT GNMHI
4755	35123	A	4796	2	6107	GERKPKIDLFRTCVAaiprLLPD GMSKLELIDLLARLSIHMDDEL RHIAQNSLQGLLVDFSDWRED VLFGFTNLLREVNDMHHTLL DSSLKLLQLLTQWKLVIQTQG KVYEQANKIRNSEARDLELDV GVDVDVGVDVADVDVDVDL GVDVDVGVDVADVDVDVDV MGVDVDVDRIYGFCKCGCDR DVDVVDVDVDIDVDVDVDM DVNIDVDVGLGAGVDVMDV HIDMDMDVDIGSDNILQSALRR

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4756	35124	A	4797	3	565	MLPGHLFCLAKAGKEEQEEKG QIIIRKTTITPQNIPGPGAHITATH RGRCTVATKFSGLCKEPNRLT WY/GPPLKGAHGGR/GPSSRVPS FPAAGQPPIGGALHGAGSRGLA RTRAQLGGPPGGELRGT/SGNG DGQGPDGDSRKSGSPLRPSHL/P DPAAVAGAPVSGHLQTPGHHA GRRQQAGPRGAGLP
4757	35125	A	4798	1	417	
4758	35126	A	4799	1	1069	MPRPPVPANALGARGEAVRLQ LQGEELRLQEAESVRLHQINIYL SDRISLHRRLPVRWNPLCKEKK YDYDNLPRTS\VTKAFYNEAWS TLLRTVYSVLETSPDILLEEVIL VDDYSDREHLKERLANELSGLP KVRLIRANKREG\LVRRALLGA SAARGDVLTFLDCHCEHEGW LEPLLQRIHEEESA\VCPTDVI DWNTFEYLGNSGEPQIGGFDW RLVF\RWHTVPERERIRMQSPV DVIRSPTMAGGLFAVSKKYFEY LGSYDTGMEVWGGENLEFSFRI WQCGGVLETHPCSHVGHVFPK QAPYSRNKALANSVRAAEVW MDEFKELYYHRNPRARLGLAC DECSIKAGWWL
4759	35127	A	4800	1	1152	MHNSDGIEVMRQQKAEIGRVG GLEGIQLGVTEVIVNGARMLES YNCKAELGATGLVNYQISVKC SNQFKLEVYLLNAENKVVDNQ AGTQGQLKVLGTNLWWPYLM HEHPAYLYSWEGRPDGAQAVG ALTPGTLA\EVWLTAQKSLGP/ SDFYTLPVGLRTVAVTESQFLIS GKPFYFHGVNKHEDADIQGGK FNWPLLVKDFNLLCWL GANTF CTSHYPYTEMLQICYRYGIVVI DECPAPSGHT\GPSVPSLLARW QLFNNVSMHHHMWVVEEPVL RDKNHPAMVMWSLAKEPASFL ESAGYSFKSLTMEQTARVLDLD TGEAVLQYRSLPRGAHKT LGK KRKISSYNVDLTSCQLAKEKCL KGPSSFLQSRQERMNSEL RDN
4760	35128	A	4801	293	535	
4761	35129	A	4802	94	686	
4762	35130	B	4803	1	2187	

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4763	35131	A	4804	596	1789	MFHVIERPYECKECGKNFRSGY QLTLHQRFTGDIHKGGKPYEC KECKKTFTLYRNLTRHQNIHTG EKLFECKQCGKTYTTGSKLFQH QKTHTGEKPYECKECGKA FSL YGYLKQH QKIHTGMKHFECKE CKKTFTLYRNLTRHQNIHTGKK LFECQECGKAYSTGSNLIQHRK THTGEKPYKCKECKGKTFSLHG YLNQH QKIHTGVKPYECKKIHT GGKPYECKECGKA FSRASNLV QHERIHTGEKPYVCKQCGKTFR YGSALKAHQRIHRSIKVNQWL DSPRHSINCDPMSPRTRK TRE RSHVSGRSLCQRLLGQGAQLRE FKQPPRNRFRRVCGLVARNTFP RGLRGRRASRRNAAASRLDA VAELLKARCSALGGSGLPEGLS
4764	35132	A	4805	2	489	CQEGAKWEQGMTGRRWVVG PPASSTPPHS/HFWLLVLSRGLV GIGEASYSTIAPTIGDLFTKNTR TLMLSVFYFAIPLGSGLYITGS SVKQAAGDWHCALRESFLQLV RLKVTLLQLQLLYPTNGK RQDTNHTRSQCAHYLPHLDFQ VALCAYAVLQC
4765	35133	A	4806	1	327	
4766	35134	A	4807	899	1219	ANRKASTMRWYVRPFCSGLST LSREKLYPLRMLRMRSTGPLS GALGMYSTASPRLMFSGC SISS AR*LFRSSAVTMPAAWMSFTI WAVRLPL*KAWAPSMASVS
4767	35135	A	4808	2152	2633	SRLDCGQGLVNGSCDYHHGCT GDTPRRPEWHRSLAHCMSPVD SLPGCAVSGSSDPWEVSWLWQ Q/VDRCNREE/VMW*QRLGFP SPTVSFPQRAVSASKPLQ*APS WISLHSTLSQCRASDLRGRHTV PEVVYEWSPCALPTHREHPNAI MEGWPPQAWWA
4768	35136	A	4809	2	387	SNASVILEGEDLRFSCSVRMAG RLQGRFSVIWQLVDRQNRRSDI MWLDR\DGTVQPGSSYWERSSE GSVQMEQVQPNFSGLGIFNSRK EDEGQYECHVTEWVRVVDGE WQIVGERRASTPISIIALGE

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4769	35137	A	4810	46	3753	EIRSWEKRRRLVLCLEAADM KCFFPVLSCLAVLGVVSAQRQV TVQEGPLYRTEGSHITIWCNVS GYQGPSEQNFQWSIYLPSSPER EVQIVSTMDSSFPYAIYTQRRV GGKIFIERVQGNSTLLHITDLQA RDAGEYECHTPSTDKQYFGSYS AKMNLVVIPDSLQTTAMPQTL HRVEQDPLELTCEVASETIQHS HLSVAWLRQKVGEKPVEVISLS RDFMLHSSEYAQRQSLGEVRL DKLGRTTFRLTIFH
4770	35138	A	4811	1	3728	MKCFPPVLSCLAVLGVVSAQR QVTVQEGPLYRTEGSHITIWCN VSGYQGPSEQNFQWSIYLPSSP EREVQIVSTMDSSFPYAIYTQR VRGGKIFIERVQGNSTLLHITDL QARDAGEYECHTPSTDKQYFG SYSAKMNLVVIPDSLQTTAMPQ TLHRVEQDPLELTCEVASETIQ HSHLSVAWLRQKVGEKPVEVIS LSRDFMLHSSEYAQRQSLGEV RLDKLGRTTFRLTIFHLQPSDQ GEFYCEAAEWIQDP
4771	35139	A	4812	897	1217	ANRKASTMRWYVRPFCGLST LSREKLYPLRMLRMRASTGPLS GALGMYSTASPRLMFSGCISIS AR*LFRSSAVTMPAAWMSFTI WAVRLPL*KAWAPSMASVS

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4772	35140	A	4813	1	1507	MWNSKINHDDHDDQFLKTYVVL ESSISVGVASNASVILEGDDLRF SCSVRMAGRPQGRFSVIWQLV DRQNCRSNIMWLD RDGTVPQG SSYWERS SFGSVQMEQVQPN SF SLGIFNSRKEDEGQYECHVTEW VRVVDGEWQIVGERRASTPISII ALEMGFAVTAISRTPGVTYS DS FDLQCIKPHYPAQVPVSVTW R FQPVGTVEFHDLVTFTRDGGV QWGD RSSFRTRTATEKAESSN NVR LIISRASDTEAGKYQCV AE LWWKNYNNTWTQLAERTSNL LVIRVLQPDRMGVSARALRGE P SPSQMPQACCHGNTGALVIGIN EPESLPCLQTVTKLQVSKSKRT LTLVENKPIQLNCSVKSQTSQN SHFAVLWYVHKPSDANGKLIL KTT HNSAFEYGT YVEEEGLRAR LQFERHVS GDLFSLTVQRAEWL LSPNYAWYKLAE E VSGRTEVT VKQPGGSLGLGC\SVSGWAAEP VCTQGPRPCSWNTPLALTAAC
4773	35141	A	4814	1	627	
4774	35142	A	4815	166	435	
4775	35143	B	4816	1	240	
4776	35144	A	4817	1	288	VVPASSPGAASEPRRRRRLQP EKSVSPGSGGGHRDPPKARPPR PPSAPKP*RPRPFS*LARSLCFPA AGCAYGVGVGGAGGGRAGLR QPVPAVAE
4777	35145	A	4818	206	1041	VSVGSAPSDMPAAATRW/CNSR CQHGQRLSAR/PVAGPGT/RTSS FPWLAPRNVVVPGSLEMPGTA GPQRGSHSSPQGSSALLSFS/CV HNVESKEPVCLLLPSMASRLLT PRGTCRPVPGCLQHPLSLPPVL VGTQSPSQAPKSAKRSPQPQL GWLQLHPGGSGLCLLPAPAGS MECAALESVPSQLGIGAPGPCW AQAGVQGW SNVATSSPSGPSA QGQPRAPPCLVCGPAQC GTSGS RSRATGLRPSCLECQVWWS PQ CGANPGDTTSSQDAGTRCSKV
4778	35146	A	4819	2	487	

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4779	35147	A	4820	152	758	RGARGPEWDGQLDGPQSQMC GMASAPRLRRSGVRAAAGHPV QQPRLLDGLSLTDESDSCVSFEP PSHPSSSSGPVTALSRGWNFLK AFPLMGETQERER/VLTHFSRR YCQCNP/AQPSGDIH/TLTCA LMLLNTDLHGHVIGEVGTETN RTDKQQNRTEQSKRQANADKH NEHANNEQQHEHDKDNDTRTR DTEMRHAKRDNA
4780	35148	A	4821	100	220	
4781	35149	A	4822	100	1588	CLKISTGYTGSMEEASGNLTI MAEGEGEAGTSTHGQSRKRE KEEVLHPFKQPDVLRSHYRENS KEEICPHDSVTSCQTPPPTLGITI RHEIAASICHVADTAGVAGDA MMRKTDLIPFIGLTLQGGRSA DMGNQKKWRKGSENLATLVA MASERFWQYSGNSTIQPKQK QHGMITRLVTAPVCPGLVQPSL CAVGLRNIMSLSSHTCALQNTK QAWEGYDDCHSQRVSQGEN MTKLSFLNLLNQMPSWGEGKM VPADFGSGSCWEGTGTGSPAGSQ VSFLNRHNDGQLAGDSPGLPPP PCPRGLQGAEQRSALRRHKAD VHRDQWLVISFSKKLRTSARK WYEAGPFSGVPRVLPAAAQGG TDFPFSPSEEPFQSPFSMVQAH TVRSKPQFHFPAAAGENCLNRSE LSRNQGLQARVGPLAIMSSDPS GDFVLYTPTILGFVGLEVLVSR EGTFLWRYSTCP\NYKLWLPP GYLGLLVPKDQKVRAVFLGM
4782	35150	A	4823	1329	1881	AHLEAAGWSSSVQPGSPRVLG RAEEHGQQSGRAKEIGHKIPKE TFDELTALETISSK\CLYLAKK NQVIQQELLSMKEVQQCKKL EEVVKILEQEVVNLKTHEKNM VEFGDVEECKLQLEERAGQEIE KLEEINLQRACLSAAKVRAEGE LEPRRHNNHTLGFTEGPWGLM SVITGAYDLIR
4783	35151	A	4824	176	308	LGNLTSPFFN*KHRSTKGFTTLS TVALLLTGHVGIKTSNCHPGY

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4784	35152	A	4825	1467	1890	DWFDELTALETISSK\CLYLAK KNQVIQQELLSMKEVQQKCKK LEEVNKILEQEVVNLKTHEKN MVEFGDVEECKLQLEERAGQEI EKLEEINLQRACLSARKKVRAG ELEPRRHNNHTLGFTEGPWGL MSVITGAYDLIR
4785	35153	B	4826	1	753	
4786	35154	A	4827	225	410	
4787	35155	A	4828	225	410	
4788	35156	A	4829	225	411	
4789	35157	A	4830	141	1001	GGVRGVQQKETCAFKVLESIG KLG\LALSVAGGAENSALYNVD AGHRAVIFDRFRGEQDIVVGE THFLIPWVQK/PPIIFDCRSRPRN VPVITGSKDLQNVNITLRILFRP VASQLPRIFTSIGEDYDERVLPSI TTENLKSVVAPFDAGELITQRE LVSQRQ\SDDLATERAATFGLIL DDVSLTHLTFGKEFTEAVEAKQ VAQQEAQRARFVVEKAEQQKK AAIISAEGDSKAAELIANSLATA GDGLIELRKLEAAEDIAYQLSR SRNITYLPTGQSVLLQLPQ
4790	35158	A	4831	194	453	QPLPELELRPKAL*LTPSQIFSA *RLKTAARLPRKPWAVLPQGFT DTPPHFSQAQISSSSVTYLSIILV KTHVLCSPFHRGTGVV
4791	35159	A	4832	1	86	PCESYLEHL*WSCRLRLRLGVS SLQLLS
4792	35160	C	4833	191	263	
4793	35161	B	4834	1	741	
4794	35162	A	4835	3	96	
4795	35163	A	4836	1	301	QEQQKMNTLQGPVSFKDVAVD FTQEEWRQLDPDEKITYGDVM LENYSHLVSLAYEVATSCTSEIL KPSNLPKSFFFSH*QDMISPSQT SSLWSRERSCG
4796	35164	A	4837	3	273	VLHFISAGNTFAHQEHSPRKG PNNLSKRKLLPAV\GPRVFHGE DRHL/LFSTRKE*ARSLCYVQG GVQAPAAAFCSLLSLWGWAGC AFWC

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4797	35165	A	4838	3062	3688	RSVTRAPPRSTFPLAQAPSPRSH HIREPTPSPHLGPLRGSHRGPPS RPLPPALAALSLETLQPRLLHP HLHL\LHDQGRACVRAYAHPS YLWRCHALGVWVES/ARLRPS ALPPAHSPPLAAPLLSSSVQPPA PALEPPPRPPAAGAAARCLAAQ HHHPSRLGVRQPPLAVGALGST WPPQAPAPPPPELSALEQDRVGA QPPPPPSQGA
4798	35166	A	4839	1	197	
4799	35167	C	4840	26	358	
4800	35168	A	4841	84	433	PASAPLGLSATVSACFQEQQKM NTLQGPVSFKDVAVDFTQEEW RQLDPDEKITYGDVMLENYSH LVSLAYEVATSCTSEILKPSNLP KSFFFSH*QDMISPSQTSSLSWS RERSCG
4801	35169	A	4842	1	372	VQWLFMQICLGGKHQQLRHQG VQEKMLPLEGS*VIEAGSPTLIG ETLSLEIINYIIGAGLESVHTHKS RQLGGWTRPGSHFQQVLIPAHT PMNLEPSQLSLEPRLVPAQQSL PSAPTPSKALSQ
4802	35170	B	4843	7	267	
4803	35171	B	4844	213	3895	
4804	35172	C	4845	141	359	

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4805	35173	A	4846	831	3017	RRRLHYSGSTRPWRTRAMLPR TSLRPHLSLSLHLPCLLLHL\ LPTHLPPGPKHQPTVREL/ARRC RLPRACHPAQNLLEQQPLRPSH LQRH/LSLLPPLGLSQSGPPG/LA PQPLL*LQTPDHFAGADPCSIHG TSH*HQGTSNPSGRDGYQTPSH ICP\SPAPKQSFLFGTQNTSPSSP AAPAASSAPPMFKPIFTAPPKSE KEGPTPPGPSVTATAPSSSSLPT TTSTTAPTQPVFSSMGPPASVP LPAPFFKQTTTPATAPTTTAPLF TGLASATSAVAPITSASPSTDSA SKPAFGFGINSVSSSSVSTTTST ATAASQPFLFGAPQASAASFTP AMGSIFQFGKPPALPTTTTVTTF SQLHTAVPTATSSSAADFSGF GSTLATAPATSSQPTLTFSENTS TPTFNIPFGSSAKSPLPSYPGAN PQPAFGAAEGQPPGAAPALAP SFGSSFTFGNSAAPAPATAPTPA PASTIKIVPAHVPTPIQPTFGGAT HSAFGLKATASAFGAPASSQPA FGGSTAVFSFGAATSSGFGATT QTASSGSSSSVFGSTTPSPFTFG GSAAPAGSGSFGINVATPGSSA TTGAFSFGAGQSGSTATSTPFT GGLGQNALGTTGQSTPFAFNV GSTTESKPVFGGTATPTFGQNT PAPGVGTSGSSLFGASSAPAQ GFVGVAPFGNTFAHQQEHSPR KGPNNLSKRKLLPAVRAQGPPR
4806	35174	A	4847	9	935	IPCFGCAMPMYQTRRQENDLR TASIAV*RRKQDDH*KQRRW QNIQRKGPKRYIVIAGNSQSHQ PMIFSMLRKLKPVTCRDVLPEIR AICIEEIGCWMQSYSTSFLTDSY LKYIGWTLHDKHREVRVKCVK ALKGLYGNRDLTARLELFTGRF KDWVMVSMIMDREYSVAVEAV\ RLLILILK\NMEGVLMVDVDCES VYPIV*ASN*ALASAVGEFLYW KLFYPECEIRTMGGREQRQSPG AQRTFFQLLSFFVESKSHFVTQ GGSGGQFSAHRNLCLPGSGNFH VSASRVAGIAGAPPHTWLIYVF
4807	35175	A	4848	1	1749	
4808	35176	B	4849	282	1227	

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4809	35177	A	4850	221	907	FEDSFNRGVKKKAAKRPLKTPP VAKYPPKGSQAVHRHSRKQSE PPANDIFNAAKAAKSMDQHRE VRVKCVKALKGLYGNRDLTAR LELFTGRFKDWM\VSMIMDRE YSVAVEAVRLLILILKNMEGVL MDVDCESVYPIVLFYPECEIRT MGGREQRQSPGAQRTFFQLLS FFVESKLHDHAAAYLVDNLWDC AGTQLKDWEGLTSLLEKDQS TCHMEPGPGTFHLLG
4810	35178	B	4851	1	2361	
4811	35179	B	4852	1	878	
4812	35180	A	4853	1	313	MPHTPRCLFRPQASCLVHFLEQ QNKLETKLQFFQNRECKSNL EPLFEGY\TLRREAECMEANS RLASELNHVQEVLEGYKKKYE EEVALKATAENEFVALKK
4813	35181	A	4854	188	354	
4814	35182	A	4855	405	647	LPLISDQVSYSPLMSKSLASLY QESY*TILARIPLISPFVNSLST DLFILLIGNTSIAIFAEFGVSAISL PSCNSLE
4815	35183	A	4856	1	585	MSSGEGKRTWLGSWGGVRVP VPPPICGLRVAVTSAGTSSFSLA PKPTRIRGERGKGQGRG/SSGN GGRGRAGASAGGSRGVSVVA NDGRWRGRGRGVGCPRSSKRE DNRFAKHGRASGKAWEPHPPS QALRALFGPIRRRGRAAETRIV YWIKDRQLTNRDSTILELQKVL KTCCAQSMKIFCCLWNFVYKQ
4816	35184	C	4857	12	468	
4817	35185	A	4858	1	1156	MAFRKKIITAGCIDHVLVSVD QQMQANLTQRTEAEIRKQTQIA PTFPAHSLPDKYLGALLNRKII GTFLVFNMCKRNHEDKNEAFT VLREKKVFNLEFCTLQNYSEV KEKERQRFSDKQTLREFATRK ALKEMLKVLQRYKERKHIRKR NVKYSADHTTDHTANQADPNQ QEPHVPGHAPDNKTIRQKQNG HKDNTTRKHNMQTSSTRTNT KVSGQPRGKQTRRRHERQQKA RERGQHRQK/RDAQTREHTQR QRQARAEVQVIENKREEKRTS ERTNDSTRREGTRRPRRTEKGE RQEEGDRATATHRKDHDRQQP HGAPHCSRSSRHGAPTGPLYCC SPLPGTPSCTICTVQYGRWLPH MATEQLNMAGPNQDFQDVVW

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4818	35186	A	4859	1	1580	MAPALLLLLASGAAACPLPCV CQNLSESLSTLCAHRGLLFVPP NVDRRTVELRLADNFIQALGPP DFRNM TGLVDLTLSRNAITRIG ARAFGDLESRLSLHLDGNQAG GAGHPRALRGPVNLQHLILSGN QLGRIAPGAFDDFLESLEDLDLS YNNLRQVPWAGIGAMPALHTL NLDHNLIDALPPGA\FAQLGQLS RLDLTSNRLATLAPDPLFSRGR DAEASPAPLVLSFSGNPLHCNC ELLWLRRLARPDDLETCASPPG LAGRYFWAVPEGEFSCEPLIA RHTQRLWVLEGQRATLRCRAL GDPAPTMHWVGPDDRLVGNSS RARAFPNGTLEIGVTGAGDAG GYTCIATNPAGEATARVELRVL ALPHGGNSSAEGGRPGPRTSPP PLALLPRYNSEDETLIYRIVPA SSHFLKHLVPGADYDLCLLA LSPAAGPSDLTATRLGCAHFS TLPASPLCHALQAHVLGGTLTV AVGGVLVAALLVFTVALLVRG RGAGNGRLPLKLSHVQSQTNA
4819	35187	A	4860	2	403	
4820	35188	A	4861	87	442	PVFPWHPYSKDQKEESQSVLVI WQKTAGGGWSTWWILSFSPET EKVVKK/AHVDTL*NEMWDVT K*TAFKIPSCT*HQQHP*SFFRK SESQVIVFAGQGVKIH*YILLHS NVIHYMNEI
4821	35189	A	4862	2	651	EFIKQWDADKFEHIQTLEGHHQ EIWCLAVSPSGDYVVSSSHDKS LRLWERTREPLILEEEREMERE AEYEESVAKEDQPA\VPGEIQG D\SYFT*KKTIETVK\AAERIMEA FELYREETAKMKEHKAICKAA GKEVPLPSNPILMAYGSISPSAY VLEIFKGIKSSELEESLLVLPFSY VPDILKLFNEFIQLGSDVELICR CLFFLLRIHFGQITS

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4822	35190	A	4863	1	703	MGLTKQYLRYVASAVFGVIGS QKGNIVFVTLRGEKGRYVAVP ACEHVFIWDLRKGEKGLKQEV TCLCPSPDGLHLAVGYEDGSIRI FSLLSGEGNVTFNHGKAAITTL KYDQLGGRLASGSK/RQPGGIV FTESILAYSSACQDKQNHYWGS SQ*CADFVIQLRQYCCSFSCS*F H*NMEQVYTAVYSHNDL*ICTL LILCTW**TGS HRNKAPKTMFP RCTEGLDRGNRPATHS
4823	35191	B	4864	1	2616	
4824	35192	A	4865	3	674	PECTGRTLRSASQQHDTFYILA CELNSLADDAQRVYDVPNSCL YPPDLWPVRPVMQAKKELARR DDIEDGDSMISSATSDTGS AKR KSKKNIRKQRMKILFNVVLEAR EPGSGRRLCDLFMVKPSKKDYP DYIIILEPMDLKIIIEHNIRNDKY AGEEGMIEDMKLMFRNARHYN EEGSQVYNDAHILEKLLKEKRK ELGPLPDDDDMASPKLKL SKA ASHFII
4825	35193	A	4866	3	425	
4826	35194	A	4867	1	1115	LCSVPTLCLASSHLVSNLSTFKQ VTSSFIRHV VATLLGLYLALFCF GWYALHFLVQSGISY CIMIIGV ENMHNYCFVFALGYLTV CQVT RVYIFDYGQYSADFSGPMMIIT QKITSLACEIHDGMFRKDEELT SSQRDLAVRRMP SLLEYLSYNC NFMGILAGPLCSYKDYITFIEGR SYHITQSGENGKEETQYERTEP SPNTAVVQKLLVCGLALLFHLT ICTTLPVEYNIDEHFQATASWPT KIIYLYISLLAARPKYYFAWTLG TAPRKWSPCPGPQCIQLRAADP SGPELLMLSSQERQPKAKPPK EAHADIAGTPREGEKTRTGGPG KAFLRDPGASSSVLSRTQLWV LTPPIAKAPCECLQ
4827	35195	B	4868	218	656	
4828	35196	A	4869	1	180	
4829	35197	A	4870	12	199	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS

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4830	35198	A	4871	1	5058	MKLRGVSLAAGLFLALSLWG QPAEAAACYGCSPGSKCDCSGI KGEKGERGFPGLEGHPGLPGFP GPEGPPGPRGQKGDDGIPPPG PKGIRGPPGLPGFPGTPGLPGMP GHDGAPGPQGIPGCNGTKGER GFPSPGFPGQLQGPPPPGIPGM KGEPGSIIMSSLPGPKGNPGYPG PPGIQGLPGTGPPIGPPGPPG LMGPPGPPGLPGPKGNMGLNF QGPKGEKGEQGLQGPPGPPGQI SEQKRPIDVEF
4831	35199	A	4872	3	1646	EDEGRAKGHHTWQQTRENESQ AKGETPYKTIRFRETYHHKNSM GETTPMIQLSPTGSLPQHVIGIM GATIQDKIWVTPGLPGFPGTPG LPVKRGFPSPGFPGQLQGPPVIP GPTGIPGPIGPPGPPGLMVTGP PGLPGPKVNMGLNFQGPKGEK VKQGLQGPPGPPGQISEQKRPID VEFQKGDQVIPGDRGPPGPPGI RGPPVTPGGEKGEKGEQGEPPG KRVKPGKDGENGQPGIPVMPG DPGYPGEPGRDG/EKGNAVMG PPGPPGFPGERGQKGDEGPPGIS IPGPPGLDGQPGAPGLPGPPGPA GPHIPPSNKGDTFCNCIGTGISG PPGQPLPGLPGPPGIPGAPGA PGFPGSKGEPGDILTFPGMKGD KGELGSPGAPGLPGLPGTPGQD GLPGLPGPKGEPVRITFKGERGP PGNPGLPGLPGNIGPMGPPGFG PPGPVGEKGIQGVAGNPGQPGI PGNKGDPGQTITQPGKPLPGN PGRDGDVGLPGIPGLPGQPLP GIPGSKGEPGIPGIGLPGPPGPK
4832	35200	A	4873	110	256	CSGTYRCYSF/HSRDPYLWSAPS DPLE/LVVTGPARQYYTKGNLV RIASGL
4833	35201	A	4874	2	2888	LSDPCSSRWDERSLSQRSRSWS YNGYSDLSTARHSGHHKKRR KEKKVKHKKKGKKQKHCRRH KQTKRRILIPSDIESSKSSRR MKSSCDRERSRSSSLSSHSSK RDWSKSDKDVQSSLTHSSRDSY RSKSHSQSYSRGSSRSRTASKSS SHSRSRKSRSSSKSGHRKRAS KSPRKTAQLSENKPVKTEPLR ATMAQNNVVVQPVVAENIPV IPLSDSPPPSRWKPGQKPKWPS YERIQEMKAKTTHL

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4834	35202	A	4875	350	986	LWGGGSARLLRLPRGPCLPPAS PSSPSSSELS*SCSLGPSSSSSSS SSSCSLCPSSSSSSSP*LPPSSSS SSSRPLPPSSSSSSSSSSSSSSS SECLCSPSSRPRTTVAGLGAPAG FSPGPVDTCSVWLLRFTSTMIW DCSLRL*VPEPPSSSNSSPPSSL HKLGGPPASSTPPSFSSLKKG WAGPMVAGTVPPAVPAPSSTR TE
4835	35203	A	4876	1	496	SQSYS\RGSSRSRTASKSSSHSRS RSKSRSSSKSAVLASTARCAGS RKQCVPLPRLCQLQSRSLQPS MVPWRWGLTGPRGIALPPAAR PGPLHEAPRWGPPRRRAPRPWP PGARPGRRRRRRAAASPSSCG PRASGAAGGGRGAPIGARASA GAAVWTPISTT
4836	35204	A	4877	3	4578	TLAVFVPTLAGFSVALGGPAW GRRRRSVSGVGVWLQWQCFLF CSRGAQAGGQPALAATSVAM GAQDRPQCHFDIEINREPVGRI MFQLFSDICPKTCKNFLCLCSG EKGLGKTTGKKLCYKGSTFHR VVKNFMIQGGDFSENGKKGGE SIYGGYFKDENFILKHDRAFLS MANRGKHTNGSQFFITTKPAPH LDGVHVVFGLVISGFEVIEQIEN LKTDAAASRPYADVRVIDCGVL ATKSIKDVFEKKRKKPT
4837	35205	A	4878	1	1689	

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4838	35206	A	4879	1	1604	MGISCPGSSKMLNSRALPVLKL TQGALRDCKERANYTNFNIYK AVESQGKFVCVLYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQSLKSSKH LTNSVIVIAVGIFSVTLQARDP QLDDAIEQLRGVCIRAWEKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSAAQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQAQKAEV AVIEVLTAFDMPINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTAFRSTMHPFYITHIRA R\HTPLPGPLTEGNQMADCLVA NAISNARHFHNLTHVNASGLK HRYSTWKEAKNIIQRCPTCQM VHSSSFRGGVNPRGLEPNSLWQ MDVTHIPLFGRLAYVHKRRRIR GGGGGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEQEQQEE QEQQEEQEQQEEQEERRRKDTE ELSYSLPLNRTQPCWHPDFGLP
4839	35207	A	4880	1	1146	
4840	35208	A	4881	1	1577	MGQVWALVHSTLETFTHTDEEE GEYNEVTEQVCLPAKAGSAAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNK AVQVQTGVTDSDYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK F\EGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFHWKVLPPQGNQQPIWI PSRYLKPYHKPDAKEEIPEGSQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPQMAEENL RKAGQPVTSINWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKISGGNCGPHPHRLQPCPD

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4841	35209	A	4882	1	420	MTNISTTLKDLKDAGMIDPIKS TFNL/PIWIPQKPDGSKTTANN /R/KLNQATISIAAIVLDVASLPG KARSYHGFSSHAGRVIDSNNQK DIEGCTYILNVAGKNMFGIQLR RSVIFPCPNLMYTDNCSSHGPR GPSDYDSDP
4842	35210	A	4883	213	687	PEHILPGAQEGPSC/PLEPELE/V *NMSSWNTLSESCMHGDLKY LFVITAKDQQ/VSIAAST/*GFC WNQ*VSASPSQAPGMPLVLGR RLWQGSRLGGLSISLSDCHGA HNHSFKRVTTTLQVFSWTPVQ AEPAMDCIHTA/DSRQRLP*QA HESVAEVIIT
4843	35211	A	4884	1	648	MSSWNPLPESFKKHGYLLYLFV ITAKDQQ/VSITASTWGFYWNH SQGKNPEQMEASQKPVAGLWA WWLNISLSAASHGAQNHPFKR VTTTLQSQGWNKDLWIMRELL CNNRPEQLLQETATIKAPIAPAD PWSQEVYINFCKAVSSVSCMPF NIHFNSNIPPESGDRMQQPC KVEQSILGAQRGGGCRPGSLR ELFPCLLAEPNMEEEVAALRA
4844	35212	A	4885	3	597	GTLEPAAEWSVLLGVHSQDGP LDGAHTRAVAAIVVPANYSQV ELGADLALLRLASPASLGPV WPVCLPRASHRFVHGTACWAT GWGDVQEADPLPLPWVLQEVE LRLGATCQCLYSQPGPFNL LQILPGMLCAGYPEGRRDTCQP SPEPGMCIS/VSHIQLRLDAVS HTWQRGTEPARLGSWERRQRQ QQQGPV
4845	35213	B	4886	387	552	
4846	35214	A	4887	20	612	
4847	35215	A	4888	792	959	TGLSSSQNPKATKSIPWHNRLL PNVDSQVQQNSQAIITYN*GNS ESQYPFSKMDT
4848	35216	A	4889	268	500	
4849	35217	A	4890	1	529	
4850	35218	B	4891	259	1672	
4851	35219	A	4892	480	657	
4852	35220	A	4893	2	377	WCDFSSSLHRSVQALRTFCVTL SGAFVRDCTTVLSSTTCEPSTD V/CWAMNIVTSVLLLYGSEEEA FWLLVALCERMLPDYYNTRV VVIRTYDQRYEQCVLDYDGLP TTLFTTDDWHVWPDLTGLP

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4853	35221	A	4894	1	251	TEARKAAAVMPKTAVLAAERP KKA WGVLPKKSTKRTPKAFA GGGCW/TKVGWSKVAKKVPKP EASKPKKAAPKTRRYKSTLTKT
4854	35222	A	4895	283	427	PSVSKESPLNSPASQAGSATFAT TPLTPPK/PAATSSVAAAALLPA LPR
4855	35223	A	4896	111	1095	SRGWSRLPVPCCAPALLSPWAV NGIRRRGAGDGTRRGSGCAG AHSAGLVASGPESWIPGPVPPG AEPPRRGDSGLARCPAPGHPSR ASQORPAEGFDALAAPSRVPGD SRQLSRNNTRSRCEGRGGKTPP AWAGVHRHGPppAAPPGRARV HGHRLRGGLGPGGGKRGLPGC CPRAADPRGRP/GETSRSGERG PGRSAPLSLQPRHRTGLET/RQP SPLARSRPGLGPRPSARRPSRPA PPPPPELHRGAPQGRVASQT RPGARARPAADTHSSLKSPASQ AGSAAFATAPLTPQKPQLRAP WQPLHSFRPCRGVTSRLRTAPP
4856	35224	B	4897	243	452	
4857	35225	A	4898	3	353	RRYLSPKYIKMFVLDEADEMLS RGFKDQIYDIFQKLNSNTQVVL LSATMPSDVLEVTKKFMRDPIR ILVKKEELTLEGIRQFYINVERE EWKLDTLCD\LSAMHGDMQK ERDVIMR
4858	35226	A	4899	3	410	NLQEWKLDTLCDLYETLTITQA VIFINTRRKVDWLTEKMHARDF TVSAMVCLPAASLLWVCPSEV SYLKPGFLEPRCLPGLLHICFLF QHGDMDQKERDVIMREFRSGS SRVLITDILLVSRGN**QRQKG GSKVI
4859	35227	A	4900	1	235	MLS YVLEVTKKFMRDPIWILVK KEELILES IHQFCINVEQEKWKL DTLRDLYETLTITQA\VIFTNTR RKCCSKVREI
4860	35228	A	4901	3	48	NSNVEREEWKLDTLCDLYETL TITQAVIFINTRRKVDWLTEKM HARDFTVSAMHGDMQK ERDVIMREFRSGSSRVLITDILLVSR GN**QRGTRGVEAGHTM

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4861	35229	A	4902	2	879	AQFPTRLDLKATQALVLAPTRE LAQHIQKVVMALGDYMGASC HACIGGTNVRAEVQKLQMEAP HIIVGTPGRVFDMLNRRYLSPK YIKMFVLDEADEMLSRGFKDQI YDIFQKLNSNTQVVLLSATMPS DVLEVTKKFMRDPIRILVKKEE LTLEGIRQFYINVEREEWKLDL LCDLYETLTITQAVIFINTRRKV DWLTEKM HARDFTVSAMHGD MDQKERVIMREFRSGSSRVLI TTDLLARGIDVQQVSLVINYDL PTNR\ENYIHRIGRGGRFGRKGV AINMVTEEDK
4862	35230	A	4903	1	1764	MASLEEGIYSLKINSKRSSYNS MNPQFTAGSEGNETEENPKFQ SRKGRPQDSGSSLSVLQEILG DDIPKVKEEAVISSQSDLGECY CGERPARNATIFAPQKEKESAP EMSSSCDKRVTNPNPEKFSEGR PKTQNTLICEKCSQPSNFLDDY NPHVIIQKRLSNQSRVICEKSSP PLNVDPNYNHSHVIQKHKEKM AIERPSSGSDWSDVGTTVIFSE EKPFSLCLPVVSEPPYYATDYT TFPPHYSPWHDYTSSWFSSTKS SCYPSLGSSSNTLQAGKSSCSSS SRSNNNIFQGERSSHQSFLSDYS TSFPVSSENTSRLDKMTEEGRS KNSSLFYYSRNVEAEAKEERVY QEETLGHPYGGGRASSFPRTIW QPEQPGFIDTHCHLDLLYSRLPF KGTFTKFRKIYSNTFPKEFQGC SCFCNPQNLSNLDNLWEDQLKDD LVWGVFGCRPHFAHYNNYQE RSILKALRHPKAVAFGEMGLD YSSKCTTHIPEQQKVFKRLRL AVSLK\KPMMIHCREADEDLLG ILKKYVPSDHKMYQHCFSGSY VIKPLLSCFPNLYVGFMALTY SAEQARETVKK

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4863	35231	A	4904	125	820	VLAPNYHITFRNLSSVSSPVTSA EPVLQAGQARELSFSSLHPASPL LVPSTPALTLHAFNALVLFPSFP LEKAAKRERPKSKIQITARVGK MRRTWSPHTTISAGGSVNGAST LKNSLVWEAKPADTTNPTPTT HPNPGPTPTNTNRHPPPHPLT NTPAPPHQPPATTP/SPQTQTPN YCPNTDHTTPTHDTNPVPPTR RTPPNRTGKRTNTSQNYRLVSP APKIHWEA
4864	35232	A	4905	407	757	
4865	35233	A	4906	5	426	GKTSTKSQNASSPPKDHNSSPA REQN/WIENEFNELTEVGFRIT SLEKNINDLMELKNTARELREA YTSINSQINQVEERISEIEDQLNE IKHEDKIREKRMKRNNQSLQEI WDYVKRPNLRLIGVPESDIENG TKLENTL
4866	35234	A	4907	1	2267	MTGQFQDVVREEARPLPNRIM RLRFNHFATECSWDHLYVYDG DSIYAPLVAAFRCEVENRYQGN PLRGTCYYTLLIDYQFTFSLSQE DDRYYTAINFVATPDEETPIRG RQTAHTGELQLTSGGYPSGMK LPEEGTGERNRITINKKDVHTET PSKGHQHQRPKVDKSTKIKKN QRKKAENSKNKNASSSPEDHN SSPAREQNWMENEFDELTEVG FRRWVITNSSKLKKHVLTOCKE AKNLEKRLGQLLTRITSLEKNV KELMELKNKAQELCEAYTSINS QIDQAEESISEIEDQLNEIKHED KIREKRIKRNKQSLQEIWDYVK RPNLRLIGVPESDGENGTKLEN TLQDIVQDNFPLARQANIQIE ILKTPQRYFSRRATPRNIITFTK VEIKGKMLRAVREKDHSIAKLE LRIKKLTQNCTTMWKLNNLLL NEYWVHNEIKAEINKFFETNEK KDTTYQDLWDTAKAVFKGKFI ALNAHRRKWERSRIDTLTSQK ELEKQEQTNSKASKRQEITKIR AELKEIETQKTLQKINESRSWFF EKINKIDRLLARPIKKKREKNQI DTIKNDKGDITTEPTMQTTIRE YYKHLANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPTTSSE IEAIINSLPTKKSPGPDGFTAKL YQRYKEEVVPLLLKLFQTVGK EGPLPNSFYWANIILIPKGRHT

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4867	35235	C	4908	605	760	
4868	35236	A	4909	94	400	
4869	35237	A	4910	1	1538	MPIQM QYPQYKLVENKTQPPVI YQYWPPADLQYRPPPEVKYRP QVVCVPVNSTAPYQQPTAVVF NPTAPPSGQGIIAQNTDLVEWF FLPHSTIKTFTLYLDQMATLIGQ ARLRIKLCESDSDKIIVPLNKEQ VRQAFINSGAWQIGLADFVGII DNHYPKTKIFQLKLTTWILPKI TRHKPLENALTVFTDGSSNGKA AYTRPKERLIETQYHWAQRAE LVAVITVL\QDFNQSNIVSDSA YVVQATKDVETALIKYSIDDL NQLFNMLQQTVRKRNFPHYVT HIRAHTNLPEPLTKANEQVDLL VSSAFLEAQELHALTHVNATGL KNKFDITWKQAKNIVQHYTQC QIPHLPTQEAGVNPREQHFTGK KNSPHEGKLIWWKDKKNKTW EIGKVITWERGFAVCSQGENQL PGWIPTRNLKFYNEPLGDAKKS ASAETKNPQLSIIDSPGKAPGCL MPTTQNWLVVEVPTVSATSKFT YHMYVYPAPKRQRPARTGIHND DGSFVKKGDM
4870	35238	A	4911	1	759	FRMVIRCLPQRELDGDRGNWT ATSAELTGKWRRYNFGGHGD CGPIISVPAQDDPILLSFIRCLQA NLLCVWRRDV*PDC*ELWIFW WGDEPNLVGV\YIMNCRLWKK DSGKMAFPMNVGRC/FFKAIHN LLERCLMDKNFVRIGKWFVRP YEKDEKPVNKSEHLSCAFTFFL \HGESNVCTSVEIAQHQPILIN EEHIIHMAQSSPAPFQVLVSPYG LNGTLTGQAYKMSDPATRKLE EWQYFYPMVLKKKKK
4871	35239	A	4912	1	539	MRHPCDGNLSYFDHISVNMLA VMLYYGFRVSGIKTGLRGVQ RHLWPLPLDASSTKTVSSSHSD KGEIFSPFPCSLINCNNFEMRNT TKCLMDKNFVRIGKWFVRPYE KDEKPVNKRVTSEIWLDFDEY\ GVSLPCFAVERCALLPLCLLPR LMISISSTRQPQYISRRGLKAKI SWVV
4872	35240	A	4913	198	620	

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4873	35241	A	4914	63	1267	RNRILRMEFFDWFWAFWSWLL NMIRSQNAKDSSSNSMENTDSP WCELFRELCKINALDVPDSSLV RGNEFSASVHNTFDHMMWRKE RYEAGWLLSSADRVMKENDE LRDSVSWLQKQILSLKSAKIAL SGSLISYRERAEIVEKQTQTLIM RVADLQQKGYINSPALCHNLIW RDLDFHSFPYDITLFHYIDDIML IGSSEQEVANTLDILKGQRFVLT VIDTYSRYWFASPECNASE/KT TIHGFTECIIHYHGIPHSIASYQG THFMAEPEGWASKNQGVEVTPF TITPSDPVATFLLPVPMTLRSAG LEVLVPEGGTLPFGDTTMIPLN WMLRLPPGHFGLLLPLSQQAK KGVTVLAVVIDPDYQDEISLLF HNGAHSIDGNGVILIGLLQWFFT
4874	35242	A	4915	2	2210	
4875	35243	A	4916	1	2036	MDTFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLLQLF QSIEKEGILPNSFYEASILIPKPG RETTKKENFRPISLMNIDAKIVN KILAKRIQQHIKKLIHHDQVGFI PGMQGWLNTCKSINVQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLKKLGTDTGTYFKIVRAIY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPFLFNIVLEVLARAIR QKEIKGIQLGKEEVILSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKTNVQKSQAFLYTNNI QTGSQIMSDLPFTIASKRIKYL IQLTRDMKDLFKNYKPLLEMT/ KTKKWKNIPCS/WELEKTTLKFI /WNRKRARIAKSILSQKNKAGG ITLPDFKLYYKATVTKTAWYW DQNRDIDQWNRTEPSEITPHIY NYLIFDKPEKNQWGKESLFN KWCWENWLAICRKLKLDPLFLT PYTKINSRWIKDLNLRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATQAKIDKWELIKLSFCT AKETIIRVNRQPTKWEKIFTTYS SDKGLISRIYNELKQIYKKKKQP HQKDFAYHFTVFVFYFGAFLLE AAATSLHDLHCNTTITG/HATPE **PV*HKRSSLTITYLCRSG*IIW WCDPHTHS
4876	35244	A	4917	1	1359	

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4877	35245	B	4918	1	948	
4878	35246	A	4919	1	981	
4879	35247	A	4920	1	3747	
4880	35248	A	4921	1	1875	
4881	35249	A	4922	1	2238	
4882	35250	A	4923	1	3924	
4883	35251	A	4924	1	1068	
4884	35252	B	4925	62	389	
4885	35253	B	4926	1	3663	
4886	35254	A	4927	1	1474	MAVSTTVRVDMPCCAVMLYC WGRSGKEQQPDEALKGKGFTV CFEGLRFGQKPGSYFSLDQIGH VEIQMITPPWRGTTLSTKRGR KRGKTESDREHNLAPPKGRDTP KKEGAHVRRGGPLSGTPTEKK GKARSPRYGDTHRGEGLNKT RAPQNFSESPEPTINKIDRLAR LIKKKREKNQIDTIKNDKGDIT NPTEIQTIREYYKHL YANKLE NLEETDKFLDITYTL PRLNQEEV ESLNR PITGSEIEAIINSLPATKKS\ PGTDGFTAKFYQRYKEELVPFL LKL FQSIEKEGILPNSFYEASILI PKPGRDTQKKENFRPISLMNID AKIVSKILANRIQVHIKKLIHHD QVGFIPGMQGCVGSSARAIGQE KEIKGIQLGKEEAKLSLFADDTI ECLNPIVSAQNLFKLISNFSKV SGYKIHVPKSVSFLYTNNIQAES QIKNAIPFTIASKRIKYLGIQLTL EVKELYNKNYKTLLKEIRDE
4887	35255	A	4928	419	1002	CYQRWKVLKKSSGPLARL/IKK REKNQIDAIKNDKGDITTDPT EIQTTIREYYKHL YINKLENLEET DKFLDITYTL PRLNQEEVESLNR PITGSEIEAIINSLQTKKSPGPDG FTAKLYQRYKEELVIYRFNAIPI KLPM TFFTELEKTTLKFIWNQK RIRIAKSILSQKNKAGGITLPDF KLYYKATVTKTAWYW

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4888	35256	A	4929	1	2502	MFFETNENKDTTYQNLWDTFK AVCRGKFIALNTHKRKQERSKI DTLTSQLEPEKQEQTTHSKASR RQEITKIRAELEIETQKTLQKIL QKINESRSWFEEINKIDRLLAR LIKKKREKNQIDAIKNDKGDITT DRTEIQTIREYYKHL YANKLE NLEEMDKFLDTYNLPRLNQEE VESL\HRLITGSEIEAIINSLPTKK SPGPDGFTAKFYQRYKEELVPF LLKLFQSIEKEGILPNSFYEANII LIPKPGTDTTKKENFRPISLMNI DVKILNKILANRIQQQIKKLIHH DQVGFIPGMQGWFNHKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQPFMLKSLNKLVLVLAR AIRQEKEMKGIQLGKEEVKLSL FADDMIVYLENPIISAQDLLKLI SNFSKVSGYEINVQKSQASLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWKNI PCSWVGRIN IVKMAILPKVIYRFNAILIKLPM TFFTELEK\TTLKFIRNQKRACIA KSILSKKE\KAGGIMLPFEKL*Y KATVTKTVWYWCQNR YIDQW NRTEPSEIIPHIYNHLIFDKPDKN KKWGKDSL FNKCWEHWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLAGHLGNTIRDI GLGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETAIRVNR
4889	35257	A	4930	1	4187	MGDFNTPLSTLDRSMRQKVNK DSQELNSALHQADLTDICRTLH PKSTEYTTFAAPHHTYSKIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVY RGKFIAFKAVCRGKFIALNAQN RKQERSKIDTLTSQLEKEKQE QTHSKASRRQEITKIRAELEIE TQKTLQK\SESRSWFEEKTNKI DRPLARLIKKR

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4890	35258	A	4931	1	1818	MSSRGPCTLETLINPSPSVADDI PHLRPKPVYITTTTRDNENIYSTK IPYMAARVVFIKWIVTFFLEKK YLTATQNTKNGVDVLPKIIQTV GGGAVQERAPELDGGGPTEQD KSHSNSSTLSDRRLSNSSLCSE EEHRMVYEMVQRIILLSTRGYV NFVNEVFHQAFLLPSCEIAVTR KVVQVYRKWILQDKPVFMEEP DRKDVAQEDA EKLGFSETDSK EASSESSGHRSSSWGTH\NSFT SAMSRCVTEEG/TIQMLKAGV QALLQPVLCVFPLIPLPLCNQA ARPAVVSIPLGDLLPWSVLGG PADQWHL SYLKPEGSSAYACIL EALESAGKGLWKVSAVGRKP WTRGRSDRKGTVGHQVQFLFF KDEGRVDSRILTLMVAWIRPN\ LCVYISRELWDDFLGVLS\SLTE WEELINEWANIMDSLTAVLAR TVYGVEMTNLPLDKLSEQKEK KQRGKGCVLDPQKGTTVGRSF SLSWRSHPDVTEPMRFRSATT GAPGVEKARNIVRQKATAKRS QSI SNCVHLSEALPATKSVPLLL HTLYKNKALKAAALGQPVGKAD QLVVAGSPSVCCVEDQWGRSN LEAMVLWLYCIPPDGDVLYL
4891	35259	C	4932	96	278	
4892	35260	A	4933	1	261	KLRLPPGHFGLLLLLSQAKKG VTVLAGVIDPDYHNEISLLHN GGKKKTRPAEMLAEGKGNT WVGEEVSHQYQL*PHDQLQKR
4893	35261	C	4934	36	385	
4894	35262	A	4935	1	2349	
4895	35263	A	4936	207	561	QLAEPHWIPGTRKDAQCLVGL FGFWRQHIPHLGGLLWPIYRVT QKAASFEWGP*EKALQIQPS VQAALPLGP*DLADPMVLEVS MADRCAGWSLWQAPIGELQQ KPLGFWSKALP

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4896	35264	A	4937	1	1375	MSTTQLDTMGAESLCNMETVQ VEDEGIQKLKEIRMVEWITPFRP THPSCEGPEDIPLTNALQNTFVR AAPASLKSPVVALLSPVGYRT HAVVISPVPECRFGIDILSSWQN PHIGSLAGRAHQKQFVGSWQG QQYAFTVLPQGHINSLALCHNL IWRDLDFLLSQGITLVHYTDD IMLIGSNLADPMVLEVSMADRC AGWSLWQAPIGELQKPLGFW SKALPSSADNYSPPERQFFACY WALVETECLPTGHQLTMQPEL PIMNWVLSDPSSHKWVHGQSG HGGRDSGYSWTQQHGLPLTKG DLSMTTAEQCIFQQRPILSPRY GTIPWGDQPATWRQKWQRFVL TGIDTYSRYEFAYPACHASTKT TIHGLMEFLIHHHGIPHSIASDQ GTHLMAKEVRQWAHAHGIHW SYHVPHHPEVAGLIERWNE\GL LKSQLQHQLVNRLRRELQCWL
4897	35265	A	4938	1	324	INCLRNCKTYQA/RKPLWFYNT SLKFFLNKP/MLADVVEIQGTT VPAHRAILV/ARCEVMAAMFN AGIFQAMCLLCAE/MYQVSRL QHICELFII/TQLQSMPSRELASM NL

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4898	35266	A	4939	108	2304	VAAAYPPPASPWPSPARSLAGA APAPLCVGPAAVEAREGDAAG DERIAGELAARGPREAVSRCFS PSRRPALGFEIMSIHIVALGNEG DTFHQDNRPGLIRTYLGRSPL VSGDESSLLNAASTVARPVFT EYQASAFGNVKKLVVHDCPVW DIFDSDWYTSRNLIGGADIIVIK YNVNDKFSFHEVKDNYIPVIKR ALNSVPVIAAVGTRQNEELPCT CPLCTSDRGSCVSTTEGIQLAKE LGATYLELHSLDDFYIGKYFGG VLEYFMIQALNQKTSEKMKKR KMSNSFHGIRPPQLEQPEKMPV LKAESHYNSDLNLLFCCQC VDVVFYNPDLKKVVEAHKIVL CAVSHVFMLLFNVKSPTDIQDS SIIRTTQDLFAINRDTAFPGASH ESSGNPLRVIVKDALFCSCLSL ILRFIYSGAFQWEELEEDIRKKL KDSGDVSNVIEKVKCILKTPGKI NCLRNCKTYQARKPLWFYNTS LKFFLNKPMADVVFEIQGYG QCPAHRAILVAPCEVMAAMF NGNLHGKAKSVLIPVYGVSKET FLSFLEYLYTDSCCPA/GIFQAM CLLICAEMYQVSRLQHICELFII TQLQSMPSRGTGHPWNLDIS/V DLL*KGPSFHHSWIAFSTWAYF HFHCYLYLIFQFKRPGIFRDLF S/EGRNGSFLFGKRHRWGPSNM LLGRQLAGITGKYYFTSPGNVG
4899	35267	B	4940	1	3117	
4900	35268	A	4941	1	1162	MRVCARACVTRTRMCMVYAH TCVVCVPTYAYVRVRVRVHVRA RVRVCAYARTRVRNSLSILPFIQ LTLATPIHHIHQEEFNIRGIVPVL RRVKPDLAIGIDITPSCDTPDLH DYSEVRINQGVGITCLNYHGRG TLAGLITPPRLIRMLEQTALAHN IPVQREVAPGVITETGYIQLFLP GWEIGFSPLALLAFLCSTSPGF GDPDGLGVIAAYQDTPVPNAAT AISELNALAVKGVILTGDNPRA AAAIAELGLEFKAGLLPEDKV KAVTELNQHAPLAMVGDGIND APAMKAAAIGIAMSGTDVAL ETADAALTHNHLRGLVQMIEL ARATHANIRQNITIALGLKGIFL VITLMTGLWLAVLADTGATV LVTANALRLRRR

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4901	35269	A	4942	1889	3387	QWAIKQFKHAEKENPYLFGGG HLRAIFR*SGFQ*RQLHTMHWG AS/QQAEHP/LAQPSTRAQLRTP P/TADS/QRALVGSGMKPRLNG ERVLICAAGKHPADAFTGLINE LESAGQTVVLVVRNDDVLGVI ALQDTLRADAATAISELNALGV KGVILTGDNPRAAAAIAGELGL EFKAGLLPEDKVKAVTELNQH APLAMVGDGINDAPAMKAAAI GAMGSGTDVALETADAALH NHLRGLVQMIELARATHANIRQ NITIALGLKGIFLVTLLGMTGL WLAVLADTGATVLFPPRLFEAR NSQVGNGETNQTRFRLCAAPG GTFIADFTAGTGRRARPRRNR RVVVSFDFHQNMRRLMEIVA ARFVVSKVAAHFRTFHYGGVIF ISRENVIRWGFESIFDHLERFR LLFTIDNPVGVKNFVAAVLGVR LGKHIQFDVVRVTTKLCEILQI VNFIFRQSQAQTQVSVDQRLTA LPQQINAGNRSRLMVGKQLLCI
4902	35270	B	4943	1	2104	
4903	35271	C	4944	1	1215	
4904	35272	A	4945	3	268	YEFNRPYPEIQRSGIS\KLEPLL FAATSDSQLSKTEISSIKINSETV PVYQLRYNGNNALMFATYQD KMLVFSSTDMLFKDDQQDTEA
4905	35273	B	4946	1	1725	
4906	35274	A	4947	1	1437	
4907	35275	A	4948	2	736	QCPYPYIAATGRILVVTHLICLA PQIVENQVTYPLTTTMLSVPGA KTVRGFSQFGDSYVYVIFEDGT DPYWARSRVLEYLNQVQGMPL AGVSAELGPDATGVGWIYEYA LVDRSGKHDLADLRSLQDWIL KYELETIPCVSEVASVGGVVKE YQVVIDPQRLAQYGISLAEVKS ALDASNQEAGGSINELAEAEY MGGTCSAHGRALSRGVLWCRF SAIVRGPPRGMFCGAGAAPNLI
4908	35276	A	4949	531	632	
4909	35277	A	4950	532	609	

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4910	35278	A	4951	1	525	LGVEATA\IGDFGK\AAEKLVPV VELAQACAHAVMKSGIDLAVS YCMQVNHGFAQPLEFLLGGLD KVPVLLVFINGVATPLPGFQRT RMLGEAIGRFTSTPQYAGDTVN DEDISNTIRALFATGNFEDVRVL RDGELRKFPCTCESDDNFRPVT SVNYVIRHDWVGIRRVVPENE
4911	35279	A	4952	1	2769	
4912	35280	A	4953	1	681	
4913	35281	A	4954	1	1230	
4914	35282	A	4955	1	774	MLRTSDRPPYQYPKRCIPLSVL EVLRCARRWSLRPYQLARAYI /ERYRHDR\DIEREKRGRLNQEI RGLVEQTNASLLNENANKDSK AHERGDIHYHDLDYSPFFPMFN CMLIDLKGMTQGFKMGNAEI EPPKSISTATAVTAQIIGSVHIYG GTTINRIDEVLAPFVTASYNKH RKTAEEWNIPDAAGYANSRTIK ECYDAFQSLEYEVNTLHTANV EGLTGDDGIAVEALKKNSQKPR MSASHNCELVSLRGRQYT
4915	35283	A	4956	1	1278	
4916	35284	A	4957	461	1002	SLSTKGYAAAKWCSTACAGS/T LLLIVLLWVFIPKGFPPGQDNGI IQGTLQAPQSISFANMAQLQRQ VADVILQDPAVQSLTSFVGVDG TNPSLNSARLQINLKPLDERDD RVQKVIARLHTAVDKVPGVDL FLQPTQDLTIDTQGSRTQYQFT LHATSLDALNTWVPQLMEKI\Q QLPKLS
4917	35285	A	4958	1	291	MNPVDRPLLDIGLTRLEFLRISG KGLA\GLTIAPALLSLLGCKQED IDSGTVGLINTPKGVLVTQRAR CTGCHRCEISCTNFNDGSVGTF FSRIKPH
4918	35286	A	4959	1	306	MKNFEVLQPLQNSLSGLPLWV SERILQQINQLTHYEPVIGIMGK TGAGKSSLCNALFAGEVSPVSD VAGCTRDPLRFRLQIGEHFMTI VDL\PGVGESGVRD
4919	35287	A	4960	2666	2775	
4920	35288	A	4961	9	308	GDLDGSRHRAFLCHLPVELKTA LMFPVTLTRALMETAY/ATAVS A/NFRTERGAH/SRFDFFD/RDD ENWL/CHSLYLPESMSMTRRSV NMNPKLRPAFPPKIRT
4921	35289	A	4962	1	1132	

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4922	35290	A	4963	1170	1352	RNLPDAAGQSCAGEIRLYRQQT QRSRLQRWLHLACFRRCNLHR RELDATA*QHVRSCRWR
4923	35291	A	4964	1	312	MRKLTALFVASTLALGAANLA HAADTTTAAPADAKPMMHHK GKFGPHQDMMFKDLNLTDQA KQQIREIMKG\QRDQMKRPPL ERRAMHDIIASDTFDKVKAEA
4924	35292	A	4965	3	205	KDHIKGVLEAQNLSLTQVSLFF *SFFG*NSNMRNLIQIYRSL/CTK AI*LMNFKRHK NQLVINYL SRS
4925	35293	A	4966	1	915	MTGVATARARGLRRLSVGQV PPFARLWKG VQTVERHMLANI GTGSQHPGCGFQLINQNSVIVF AAGEVNGFTSGDVQCLKMRSG DMNDIQRRQRLLPDGNKFGEIQ TTIREYYKHL YANKLEDLEEM DKFLD TYTL PRLNQEEVESLNR PITGSEIEAVVNSLPTKKSPGPE RLTAEFYQRYKEELVPFLLKLF QTTEKEG LLPNSFYEASVLLIPK PGKDTTKKENFRPISLMNIDVKI LNKILANRIQQHIKKLIHHNQV GFII GVQGWFNICKSTNVIYHV NRTNDKNH\ISIDTEKAFD
4926	35294	A	4967	1	1338	

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4927	35295	A	4968	1	1928	PPLVIHRQTGSGEDLQQTPTDL QLRVLTIRRKTNKQKGHPHQNP ISSRRHEITKIRAEKETETQKTL QKKS MNPRSWFFAERINKIDRLL ARLIKKKREKNQID\AIKNDK\W DITHRIPTEIETIIREY\YKHLTY NKL\EN\LEEMDKFLDTYTLPAR LN\QEEVESLAHRLITGSEIEAITN SLT\TKKSPGPDGF\TAEFYQRY KEELVPFLLKLFQSIEKEGILPNS F\YEASIIISKPRDRTTKKENFR PISLMNIDAKILNKILANQIQQHI KKLIHHHQVGFIPGMQGWFNIL KSINVIHHINRTKDKNHMIIIEA EKAFDKIQQPFMLKTLNKLIGD GTYLTYLKIIRAVYEKPTANIIL NGQKLEAFPLKTGTRQGCPDSP LLFNVL\EVLVGAIQKEKEIKG IQLGKEDVKLSLFADDMIVYLE NPIVSAQNLLKLISNFSEVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKT LNQKFSYWFRVNKHVYHQRTFP LKETEFNTIATLYNGASP/RTAP KSTGTNGHQASGLPRF*RIAFCS ALVSKSRKLYQGYLPQQTDRR EEGVSWCPGGP
4928	35296	A	4969	2	237	QPVEDTWLSTPAAPMVDSLAR VRVMARGNAITLPVCGRDVK/F TLEVLRGDSVEKTSRVW\SGIET YQELVTEDALDDL
4929	35297	A	4970	1	1752	
4930	35298	A	4971	1	723	
4931	35299	A	4972	1	1701	
4932	35300	A	4973	1	1446	
4933	35301	A	4974	1	403	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKG\LALKGLRVLLVEV RHRV
4934	35302	A	4975	1	1374	

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4935	35303	A	4976	1	2259	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLAL/KGLRVLLVEVHKRWS*N DEGYRHCTV***\HPEARKITRR WRIGEAADLVGVSSQAIRDAEK AGRLPHPDMEIRGRVEQRLVIQ LNKLICVMCLVRDCDVLKTYF HR*SGLLPKVAFTKP/HVSVHL AQDLALKGLRVLLVEEPPSAPN LGIGTINVCAADVLIPTPAEL FDYTSALQFFDMLRDLLKNVD LKGFEVDVRIILLTKYSNSNGSQ SPWMEEQIRDAWGSMLKNV VRETDEVGKAAPMVDSLIARV GVMARGNAITLPVCGRDVKFT LEVLRGDSVEKTSRCDNLKTCH TSHGSVMAETA VINHKKRKNS PRIVQSNDLTEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEHDGI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKGYESFPWFIKRAHSPSRG LYSVHINPYLIPFFIGLQNRFTQF RLSETKEITNPYAMRLYESLCQ YHPLTIEKVMKPLITSNTVTDEI ERANVFKMNGKWYLF TDSRGS KMTIDGINSNDIYMLGYVSNLS TGPYKPLNKTGLVLQMGLDPN
4936	35304	B	4977	1	1744	
4937	35305	A	4978	1	2367	
4938	35306	A	4979	1	1215	
4939	35307	A	4980	1	946	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGQAPCMK\LTMR SSSSAPSPWML
4940	35308	A	4981	1	1572	

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4941	35309	A	4982	1	1617	
4942	35310	A	4983	1	550	
4943	35311	A	4984	1	3818	
4944	35312	A	4985	607	3777	
4945	35313	A	4986	671	3091	ARCQRVPGRPVDPDLRCLPRAT TPAPSPAPGLVVRRLAAPVPAA APVPAAAPVPAAAPVPAAAPVP AAAPVPAAAPVPVAAAPVPVAA PVPAAAPVPAAAPVPAAAPVPA AAPVPAAAPVPVAAAPVPAAAP VPRFQSPNQASTSDSPHIGQLP HQTVPISDSFHTGQSPHRTDSTP DSPHTGQLPHRTVPTPD/ELPHR TVPTPDSFHTRQSPHQTASTPDS PHIGQLPHQTVPISDSFHTRQSP HQTASTQDSPHTGQIPHRTVPT PDSFHTRQSPYRTASTPDSPHIG QLAHRTVPTPDSFHTGQSPHRT DSTPDSPHTRQLPHQTVPISDSF HTGQSPYRTASTPDSPHTRQLP HQTASTPDSPHTRQSPHRTVPT PDSSPHQTVSTPDSPHTRQLPH QTVPTPDSFHTRQSPHQTVPPT DSPHTRQLPHQTASTPDSPTPD SPHTGQSPHQFPHQTVPPTADSP HTRQLPHQTVPPTADSPTPDSFH TRHSPHQTASTPDSPHIGQLPHR TVPTPDSFHTRQSPHQTASTPDT PHTRQLPQQTVPTADSPTPDSF HTRQSPHQTVPPTPDSPHTRQSP HRTVPTPDSFHTRQYPQRTVPT QTASTPGSPHTKQSPHQTVPPT DCPHTGQSPYQTVSTPDSPHTR HSPHQTASTPDSPHIGQLPHQT ASTLDSPHIGHPRQMAPTPESP HARQLPCQMAPTPDSPTLDGPH
4946	35314	B	4987	1	891	
4947	35315	A	4988	157	1990	
4948	35316	B	4989	1	2157	
4949	35317	A	4990	1	378	MSIKGTYLKVIKAIYDKPTASSI LNGENLKAFLLRGTGRQGCPLY KINVYKSVALLYTTNDQGENQI NNSTPYTTAPRKIKYIGIYLTKE VKDLYKENYKTLLKEVIDDT/R WKHIPCSWMGRINIV
4950	35318	A	4991	1	392	

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4951	35319	A	4992	3	1570	ETDFAFVGQAGVQWCDLSSPQ PLPPWVQAILLPQPPRQGCWSG IPKWSGISEDVQVWKNCKLDL AAATGKNCLGQGEEALLTQMR TGNQREVSDWWEFVYLRSRN PLMVNSNYMMDFLYVTPTPL QAARAGNAVHALLLYRHRLNR QEIPPVRGPQWVRDGGVVLWP LGHVGPGRQLTAHGFLQTLLM GMRPLCSAQYEKIFNTTRIPGV QKDYIRHLHDSQHVAVFHRGR FFRMGTHSRNSLLSPRALEQQF QRILDDPSPACPHEEHLAALTA APRGTTWAQVRTSLKTQAAEAL EAVEGAFFVSLDAEPA\GLTL EDPAASLDAYAHALLAGRGHD RWF\DK\SFTLIVFSNGKLGLSV EHSWADCPISGHMWEFTLATE CFQLGYSTDGHCKGHPDPTLPQ PQRLQWALPDHIHSSISLALRG AKILSENVDCVVPFSLFGKSFI RRCHLSLDSFIQIALQLAHRDR GQFCLTYESAMTRLFLEGRTE VRSCREACNFVRAMEDKKKT
4952	35320	A	4993	1	1027	MPAKSPGQDVLGTDNIKIDVFK QTNQKSHTGEKPYECPEGKAF SEKSRLRKHQRTHTGEKPYKC DGCDKAFSAKSLRIHQRTHTG EKPFECECGKSFNYKSILIVHQ RTHTGEKPFECNECGKSFHMS GLRNHRRHTHTGERPYKCDECG KAFKLKSGLRKHRTHTGEKP YKCNQCGKAFGQKS\QLRGHH RIHSGEKP\YKCNHCGEAFSQKS NLRVHRTHTGEKPYQCEECG KTFRQKSNLRGVHQRTHTGEKP YECNECGKAFSEKSVLRKHQR THT\GEKP\YCNQCGEAFSQKS NLRVHQRTHTGEKPYKCDKCG RTFSQKSSLREHQKAHPGD
4953	35321	A	4994	154	331	IPAAATCMGSLG*ETPGLWA RRSVKSRGLFPGLPSPRASVRS LLLLPAWAAFLEGIVDTRPTAW RAFPWTLFLSVFCQFLDFPETS DSQKLSLDTPSF

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4954	35322	A	4995	657	1455	PEPKPAAVAPPESPLPAGDSEG CLQPGHLL\PASPRLP RP RQAAS LAHRPEKSAPGADCP SGRR\GR PWTCGGLSGPAAAPRPCPLAPA FAPAFALGAQR\GPGPEQGGH ERQAERPGRRSRRTRAYSARIY LPVAAEWPMGPGPEPGAGGRR RGEVPGPGAQRSPARRRRGGPA AVSSGGRGVGGLRGAVL FQHP EQQQRPVGLAGLGAQQPAHV WRYGPLST/PPALGPPAAARGP\ GRRLFLPFSFSPSAGAPGAASRP SPRRSP
4955	35323	A	4996	1	415	
4956	35324	B	4997	8	211	
4957	35325	A	4998	1	563	MDPNHEEIPDLPEKEFRRVKSK NHMTISIDAEKAFDNIQHRFMI KTLSKIGIQGTHFNIIKAIYDKP TASIILNGENLKAFPLRTGTSIVL EVLARAIRREKEIKIGIQGKEEV KLLLFADDMIVYLENPKDSYRK LLEQIKEFSKVSRYKINVQKSIA LLYANS DQAENQINNPTSFTIA AKNKK
4958	35326	A	4999	667	960	
4959	35327	A	5000	317	1157	EFRMDPAIALVLALS LTVPKLT VPDSPLRLYRSFCTSACTSNLV VHFA*KEK WPDV*LYTDSWAV ANGLAGWSGTWKKHDKIDD NEIWGRGMWIDLSEWSKTVKIF VSHESAHHIT*KSSAEEDFNNQ VDRMIHSVD TTRPLSPATPVITQ WAHEQSGHGDRDGGYAWAQQ HGLPLTKADLAMVTAEC PICQQ QRPTLSP*YGTIPRGDQPATWW QVDYIGPLSSWKGQRFVLTGID/ TSGYEFAYPARSSANSTIRGLM ECLIH HHGIPHSIASNQLYS
4960	35328	A	5001	2	15246	

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4961	35329	A	5002	1	951	MALALNRYL/CLAVLPLITKCA PLFAG/TEHRAIMVDSMLHTVY R/LSRGRSLTKAQRDVIED/CLM SLC\RLLRRLVFDVPILNEFA/K MPLKLLTNHYERCWKY/YCLPT GWANFGVTSEEE/LHLTRKLFW GIFDSLH/KKY/DPELYRMAM PCLCAIAG/ALPPDYVDASYSSK AE/KKATVDAEGNFDPRPVET/L NV/IPEKLDSFINKFAEYT/HEK WAFDK/DKEIYRWPIKESLKAM I/AWEWTIEKARELDLPREGYN PQPPDLSAV/TLSRELQAMAEQ LAENYHN/TWGRKKKQELEAK GGGTHPLLVP/YDTLTAKEKAR DREKAQSY
4962	35330	A	5003	273	478	
4963	35331	A	5004	2	622	GAPRSLSEKERQLMGMINQLSS FREQLLHAHYEQKLAASQIEK QRQHMKLGKQ\QQEQIARQQQ RLIQQQHINLLQQQIQQLYAA QLAAMQVSPGGKLPGIPQGNL GAAVSPTSHTDKSTNSPPKSK TCCLLLWEDEHSASIEPVTNQQI HLHLASSITDHGGKVIWERCLE ESGKGVGTGFPDWSRWRGRIPPE GSKEGFTKE
4964	35332	A	5005	3	512	
4965	35333	A	5006	1	642	MHAQTYAHTDTRAQPCTSM EK QVSLKPTEEAHKKERKPQKPG KYICQYCSRPC/AKPSVLQKHIR SHTGYG\CEMYPHGLEMERIPG EEFEPTEGESTDSEEETSATSG HPAELSPRPKQPLLSSGLYSSGS HSSSHERCSLSQSSTAQSLEDPP PFVEPSSEHPLSHKPEDTHTIKQ KLALRLSERKKHQVIDRLGSGI LAGLSWQLLPQGEAL
4966	35334	A	5007	341	1020	TLNRRQGCLGSWLTRSN GILL FEISRPTYLPILLILFLVKR/HKL KMSVLNMVVRHDPGSTESAKA KEELIFRCRSRHFRA SPLFSQHA AADKHKFQRFLTADMALAVTV YAPTTFPSSLLL FKKQKSNGMH NLIATGHLLLVDPNRMVIKRVV LSDPPFKICTKMAVVCYMFNR EDVQWFKPVELRTKWSRRGHI QEPSGTHGRMKCSFDRK LKSQ NTELMNLYK

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4967	35335	A	5008	1	847	EKAQALEDLAGFKDPAPGHTE ESMTHDKTTKIPCKSPPELVDT ATSSKKWPRACGQKVEVKEEL LAVGKLTQTSGETTHTNKEPEG EGKGMKAFKQPAKQKLDPENV TGSRRLLPRVPKEKAQPLEDLAS FQELSQTTPGHTEELANGADSFT SAPKQAPDSGKPLKISRRVLQA PKVEPVGDLVGTR/D/PVKSQSK SNTSLPPLPFKRGCCKDGSVTG TKRPHCMPAPEEIIIEELPASKKQ R/VVAPRVRGKSPEPLVIMKRSL RTSAKRIEPAEDLNSNNMKTNN
4968	35336	A	5009	9	1094	IRHEESMTDDKTTIIPCKSSPEL EDTATSSKRRPRTRAQKVEVKE ELLAVGKLTQTSGESTHTDKEP VGEGK\GTKAFKQPAKRKLDA EDVIGSRRQPRAPKEKAQPLED LASFQELSQTTPGHTEELANGAA DSFTSAPKQTPDSGKPLKISRRV LRAPKVEPVGDVVSTRDPVKS QSKSNTSLPPLPFKRGGGKDGS VTGT\KRLRCMPAPEEIIIEELPT SKKQRV\APRARGKSSEPVVIM K\RS\RTSAKRIEPAEELNSND MKTNKEEHKLQDSVPENKGISL RSRRQNKTEAEQQITEVFVLA RIEINRNEKKPMKTSPEMDIQNP DDGARKPIPRDKVTENKRCRLS ARQNESSQP
4969	35337	A	5010	1	459	MAKPWRALCILLRSLDSFLQLS ASLTCFGFMHNTYKNRPWGV RSSTERSPRKGTAGDMRAGGRF NAPLIGQDLLFKEHFASKALDT CTNIARSAKTQGGPVAAIILL AFGPCIFNLRVKFVSSRIKAIKL QM/RLTIYRGPLDRPAGPSTGL
4970	35338	B	5011	1	687	
4971	35339	C	5012	194	418	
4972	35340	A	5013	17	396	
4973	35341	A	5014	1	70	

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4974	35342	A	5015	1	994	MGFVKVVKNKAYFKRYQVKF RRRREGKTDYYARKRLVIQDK NKYNTPKYRMIVRVNTRD\ICQ IAYARIEGIMIVCAAYAPELPK\ YGVK\VGLTNYAAA\YCTGLLA GPAGFFHRFGMDKFYEG\QVEV TGDEYNVESIDGQPGCLHPAY WDARPLPRTSPLAIKVFWLP*R GA\VDGGLVLFPPQYPNRFPL WIPESQGNLNARRYHREGTIHG PRIVAGLHAPTLMEDEDA\YK KQFVRQYVKNS\VTPD\MMEE MYKKAHAAR\ENPVYEKKPK KEV\KRKRWNRPKMSLAQKK DRVAQKKASPLRAQERAAEKL NQTIFYKDFSDIAN
4975	35343	C	5016	27	308	
4976	35344	C	5017	68	307	
4977	35345	A	5018	388	1485	
4978	35346	A	5019	3	1940	RDRMILLKMEQEIIDFIADNNN HYKKFPQMSSYQRMLVHRVA AYFGLDHNVDQTGKSVIINKTS STRIPEQRFCEHLKDEKGEESQ KRFILKRDNSSIDKEDNQSVCS QESLFVENSRLLEDNICNETYK KRQLFRGNRDGSGRTSGSRQSS SENELKWSDHQRAWSSTDSDS SNRNLKPAMTKTASFGGITVLT RGDSTSSTRSTGKLSKAGSESSS SAGSSGSLSRTHPPLQSTPLVAG \VAAGSPGCVPYEPENGIGGQVA PSSTSYILLPLEAATGIPPGSILL NPHTGQPFVNPDPGTPAIYNPPTS QQPLRSAMVGQSQQQPPQQQP SPQPQQQVQPPQPMAGPLVT QSIPAKKELNAFRVRNQEQRDT GTLHEGSGKISRMVLGWEPLSP YAPDRDDVATQFGQMTLSRQS SGETPEPPSGPVYPSSLMPQPAQ QPSYVIASGTGQLPTGGFSGSGP PISQQVLQPPSPQGFVQQPPPA QMPVYYYPSGQYPTSTTQQYR PMAVQYNAQRSQQMPQAAQ QAVLEVLSPLVSTVMPPKLAVL VMAGFRLRLELSESVLLQALW WSDHLSSFSELLCRLPDVLPES LLPLEYDHQKDAQGQDYLTCLM VLVTLLESPTGIQEDDSNEISVI

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4979	35347	A	5020	3	1353	GDAYALVLRVTLYCGKCHNE VVLAPIFEILSTESIQQDL.PYSV MLMSMLAITEGRRSFSVSVENA CSNYVTTVQVKEVNQMHISPN SCNAIHPRDHILEISGTPHTLQ VEELEDASQMSQTLILLIEHDP VSRSPAQLRLDAWLSPTQNA GHPHALSTLDTKDNLEGLRRC SLRLSNSISKSPSPSPKEPLLS RDISCWESLCCSSTYSKQNFRC DLIHGEVLGKGFFGQAIKVTHK ATGKVLVMKELMRCDEENQK TFLTEVKVTLPSNLLPPGHDL QTGAREQTGILKTGGLSVPGGA GHPAACRAGGVGPHCEHAVRP DPRLTPLALAQPPAGGCSTASIA PLFSIPAVSRVFRASRGLAACLE AEQAGRTILTCEVCKLVVGLSL DSQQQLSSVLCGWLCLSCPQL WSLNRHPQHQHHLVEMQNLKS HPRPGETESAL
4980	35348	A	5021	1	588	MEYPDGGSTLDLLEPGPLDETQ IITILREILKGLDYHSEKKIHRG VKAANVLLSEHCEVKLVDFGM AGQLADTQTKRNTFVGTPFWI APENNPTLEENYSKPLKEFVE ACLNKELSFRPTAKELLKHKFIL RDTKKTSYLTIDRYKRWRA KQSQEDSSSEDSNSETDGGQDS\G GSDSGDWIFTIQEKDPKNL
4981	35349	A	5022	1	1380	GPRASPPRADRRGPAVPSQEVA VLSAMAHSPVQSGPLGMQNLK ADPEELFTKLEKIGKGSFGEVF KGIDNRTQKVVAIKIIDLEEAED EIEDIQQEITVLSQCDSPYVTKY YGSYLKDTKLWIIMEYLGGS ALDLEPGPLDETQIATILREILK GLDYHSEKKIHRDIKAANVLL SEHGEVKLADFGVAGQLTDTQI KRNTFVGTPFWMV\PEVIKQAG YDSKADIWSLGITAIELARGEPP HSELHPMKVLFIPKNNPTLE GNYSKPLKEFVEACLNKEPSFIP TAKELLKHKFILRNAK\KTSYLT ELIDRYK\RWKAEQSHDDSSSE\ DSDAE\TDGQASGGSDSGDWIF TIREKDPKNLENGALQPSDLDR NKMKDIPKRPFSQLSTIISPLF AELKEKSQ\ACGGELGGPLKEL RGAIYLAEEACPGISDTMVAQL VQRLQRYSLSGGGTSSH

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4982	35350	A	5023	1	346	MAGEKVEKPDTEKKPEAKKA DAGGKVQEGTGRYSRSAMYSR KAMYKRKYSAASKIEKKKEK VLATVTKPVGGDKNGGTQVF QIITYSSYTQKVQLPKSTLKQRQ GPCPQGAL
4983	35351	A	5024	67	599	SAAKSEMAGEKVEKPDTEKK PEAKKVDAGGKVKKGNLKA KPKKGKPHCSRNPVLVRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLRNLLQNQVG GDKN\GGTR/VGLNFRKMPRI/Y PTE\DVPA\RKLLSHGQKNPFSQH V/REKLRSITPGTIL\MLTGRHR GKR VVFLN
4984	35352	A	5025	101	202	PVPGTSSCTDRYHYKKH**KIN TKLVSKYILNM
4985	35353	A	5026	2	562	LRTVPDLPGRRFRAMRTGQRR* PELPPDMNSLEQAEDLKAFERR LTEYIHCLQPATGRWRMLLIVV SVCTATGAWNWLIDPETQKVS FFTSLWNHPFFTISCITLIGLFFA GIHKRVVAPSIIAARCRTVLA EYNMSCDDTGKLILKPRPHVQ*QS SLIVMGLRIAFLRISDTAKSHKG FLLRLDM

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4986	35354	A	5027	1	2090	MGAVFFMLFSWWITSGHIQLLC TRRRATVSTHQEFVVTVPFSL GLVVSGCLDADTAMPGSAEEQ FQWQSQDGQKDIEDELTTGLEL VDSCIRSLQESGILDPQDYSTGE RVIHFGKTLGLSSEDYSIMEKG QMVKEVTVTPQVSVLKANETM ASALCGQEGHDDPLLLTVQMS TGNHYIKDNSLFPWVKWPSLLS QSALQLNSKPEGSFQYPASYHS NQTALGETTPSQLPARGTQAR ATGQSFSQGTTSRAGHLAGEP APPPPPPPREPFAPSLGSAFHLPD APPAAAAAALYYSSSTLPAPPR GGSPLAAPQGGSPTKLQRGSSA PEGATYAAPRGSSPKQSPSRLA KSYSTSSPINIVSSAGLSPIRVT SPPTVQSTISSSPIHQLSSTIGTY ATLSPTKRLVHASEQYSKHSQE LYATATLQRPGSLAAGSRASYS SQHGHLGPELRALQSPEHHIDPI YEDRVYQKPPMRSLSQSQGDP LPPAHTGTYRTSTAPSSPGVDS VPLQRTGSQHGPQNAAAATFQ RASYAAGPASNYADPYRQLQY CPSVESPYSKSGPALPEGTAR SPSIDSIQKDPSKYPILCDGGNPF CALVYRPSSRERASSL/LKSMCY Q*NRLYPKFRRVLGSGFEGMQ RRFCASKGIKGRFCGSSLEQDC EHGGQHPCYPKLVPTLWNP HQ REGNQKN SERV
4987	35355	A	5028	123	3825	
4988	35356	A	5029	1	593	MQVCSSGGRILRVSGTERQLRR EGGRFCLGRGVRNLREGGALR APFTAPSLTALPPDIVDIKPAN MEDLTEVTTASESHPHHCNLFV YSSSKGFLRLCDMRAAALCDK HSKHPCDDIGPIQIIQHGLRTSR GWMILPALQSTFRCRMDEQNL RAFLAPRLCDFSTSQPQPGSPEQ PVMSGLISPWTKPSRSSVFSM
4989	35357	A	5030	1	894	

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4990	35358	A	5031	1	3115	RQICSMASELGARDDGGCTELA KPLYLQYLERALRLDHFLRQTS AIFNRNISSDDSEDGLDDSNPLL PQSGDPLIQVKEEPPNSLLGETS GAGSSGMLNTYSLNGVLQSES KCDKGNLYNFSKLKKSRLKWLK SILLSDESSEADSQSEDDDEEEL NLSREELHNMLRLHKYKLLHQ NKYSKDKELQQYQYYSAGLLS TYDPFYEQQRHLLGPKKKKFK EEKKLKAKLKKVKKRRRDEE LSSEESPRRHHHQTKV
4991	35359	A	5032	1	1522	MVAQASGQTIREAEVGGSLTA QEVEATSILLSDESSEADSQSED DDEEELNLSREELHNMLRLHK YKLLHQNKYSKDKWMSQLA ALNYLAGGDEQKLLDLSYSP QNRQPAMAKAHNNNNNNNN NNNNHNKNPKRLLDERELTY STATQSFDRNTRSFDEDAKES RAAALRAANKSGTGFGEYSYL ANPSIRAGEDIPQTFINGKLKG YQLKGMNWLANLYEQRRLERL RFLQLEQEHTCPQEGRAERLRG QPLKLWALLHFIMPTLFDSHEE FNEWFSKDIESHAENKSAIDET KLKKVKKRRRDEELSSEESPR RHHHQTKVFAKFSDAPPPGT KKKHLSEQLNARRRKVWLSIV KKELPKKTLYTQDAPFHVVITS NQLVVQDVKYFQRVKWQYMV LDEAQALKSSSLTRSNARYPL VSSQRKIHDQQVTTDKSSKMDP KEEYIPAKHEMENTKLQFYLS AIGEKQVRWKILLQFQCRNRL LLTGTPIQNTMAE
4992	35360	A	5033	1	974	MGFHHVARAGLELLTSGMCCY FAQDLRPEQSIKASLQRIILRKY EKCGHHNLQLKKGYKSVDEYK VHKGSYNGFNQCLTTTQSKIFQ CDKYVKDFHKFSNSNRHMTEK NPFKCECGKSFCVLSHLTQHK RIHTTVNSYKLEECGKAFNVSS TLSQHMRIHTGQKHQYQCGEM GIAFNKSSHLNTHKIIHTGEKSY KREECGKAFNISSHLTTHKIIHT GENAYKCECGKAFNQSSLT RHKIIHAGEKPYICEHCGRFAN QSSNLTKHKRIHTGDKPYKCEE CGKAFNVSSLTQHKRIQQQQQ QTIKQTKNLLNNNNKKLWV

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4993	35361	B	5034	22	684	
4994	35362	A	5035	1	1338	
4995	35363	A	5036	1	596	MGMTDMGKSKKKSQGPPSFPP GGAPPPAIGAPAGRERPPGTGD PFNQRPCDNLKTCHTSHGSVM AETAVINHKKRKNSPRIVQSD LTEAAYSLSRDQKRMLYLFVD QIRKSDGTLQEHDGICEIHVAK YAEIFGLTSAEASKDIRQALKSF AGKEVVFYRPGEDAGHEKGYE SFPW/FIKRSPE*RRGKFPTQM GQD
4996	35364	A	5037	787	1692	
4997	35365	A	5038	289	1338	
4998	35366	A	5039	982	1347	
4999	35367	A	5040	1	780	
5000	35368	B	5041	148	334	
5001	35369	A	5042	2	545	
5002	35370	A	5043	1	732	
5003	35371	A	5044	1	1110	
5004	35372	A	5045	1	1170	
5005	35373	A	5046	1	870	
5006	35374	A	5047	1	1254	
5007	35375	A	5048	614	1236	TARVAAARRRCQCWGSGACGS ALTLPRTSSLTLTETPIVQQTRM VVRCPASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSVPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5008	35376	B	5049	1	1281	
5009	35377	A	5050	2	893	
5010	35378	A	5051	1	1416	
5011	35379	B	5052	49	768	
5012	35380	A	5053	1	792	
5013	35381	C	5054	1	1461	
5014	35382	A	5055	887	1203	RPEKAR/IWGVTDRTVVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA RHRVQFAMPESDAVAMLKQLS

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5015	35383	A	5056	740	1431	CCQTLPVFHPHPHSHLGPRPCPP TH/HLPSEHRSLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRHRLHR PQQSPPLGIPHPSL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
5016	35384	A	5057	1040	1477	
5017	35385	A	5058	1	1422	
5018	35386	B	5059	1	1404	
5019	35387	A	5060	353	870	AWSSPRSRCPLHSRTPSLPRVEG QAHIGPGL/HRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYVYTKVFALDVA ARHRVQFAMPESDAVAMLKQLS
5020	35388	B	5061	1	1612	
5021	35389	A	5062	2	429	WGHWASPRLWWAWGSPGPAG LKPPGTVAASTGFSQWLLYIETI SRTPVELELKNSKVRKDVLS/R GPHSLYLVQDAQLEHAMEIAK VSVQALQAYRAPPRMEQANP KTPPDANLYKKGPSPPRRANT TRLGSRA TKTIHPDS
5022	35390	A	5063	508	1007	PPLAQKQAVASQSHSPCGGFHR RWFRMRLTGEIMKIITCFKLVP EEQDIVVTPEYTLNFDNADAKI SQFDLNAIEA\ASQLATDDDEIA ALTVGG\SLQNSKVRKDVLSR GPHSLYLVQDAQLEHALPLDT AKALAAAIEKIGFDLLIWTSSRI QAVASPLSNT

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5023	35391	A	5064	1	1670	MNIEFFDPPRIVSGLTLNRINIQH PFHLTGIRYCIDERQRTVNDVL QAHAGRVLQQYLPAPATATFR CQSRNRTENPOFLVCQWAGED QITQLLQEQWRVLIVMIFRTHN HMAGPRRWFRMRLTGEIMKIIT CFKLVPEEQDIVVTPEYTLNFD NADAKISQFDLNAIEAASQLAT DDDEIAA\LTVGGSLLQNSKVR KDVLSRGPHSLYLVQDAQLEH ALPLDTAKALAAALEKIGFDLL IFVKGTCVLVAVFGLVTTHFQ PCLFGVQNGEQETVQILLGVV GGMERAERIIIPFTLAINNQPTT RLTKTIAQGMPIIQRNIPNPRIS LQPAPTPRHSANPATMQPHAQ ATPTPKPHTRTYPTRPPHPQRSA TPGTQRTPTPGQTARDRAPKP DHTRPQTAHTAHTSNDPQQR HRTRQRHTNKQHPHPAPRLPT LPQNNKRQKPAESDTRKHHTP HMRQPTAHAETTARNTQAAQH CHTQNTQPANRHATGDRPEHH QARDRTRIDPKPNPDPRTITGHT KGTYYAHKHTPLATHMTRPT TGHRHGTHH
5024	35392	A	5065	548	924	GLLRPRFSVNSPIHNTWLLSAN SINWR*YGFMPSSLILL*LNPM GRYSGASLVSRMASTTLPGHS IAMRQPVCGIFALTRAIISI/AM WDFHVEDFMPERMALNLVLNS AI*LPKIFPARWMKFS
5025	35393	A	5066	33	424	CRFDESFWCDAIHAIFVAPTLY AYDFYADKTLVPLTDALANTW QKQFPLDYGKGRWGSVAFVI GSALTGKLVTFDYRVILALLT LGVASMLLGLIRPTIQPGASL QQUESTGWSAWLALVRQNWRF LA
5026	35394	B	5067	1	265	
5027	35395	A	5068	142	609	CLFRQVSAPHITRVCITRSAATI QTIDLNNLDTGD*LQPAFPPVW LISPGPFHPTPSVTRVPLEKEIRT FAQRLSVLHGINAPEFFDKPLFS SLVLTLRDEGYISDSGDAEPAE TMKVYQLQTNIVIIHKCFKAGF TLAVGNQFLINKQRASHQN

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5028	35396	A	5069	983	1387	LVWKVIPWRPAWKITLCVLNS CRRACLFAPAT*TANRLQAVC/ WLQSANPSINRGTTLEKESRTVA QRLSVLHGINAPEFFDKAVFSSL VLTLRDEGYISDSGDAEPAETM KVYQLLAELITSDVRLTIESATQ GEG
5029	35397	A	5070	1	1815	
5030	35398	C	5071	1	354	
5031	35399	A	5072	1	678	MTDKQQGEKQKQKTEDKTKT KQKQRKNKTDKRRKTKTERNT QRTPERQTNTNQTRTKQ/RRPD TGVTTQADTRQDTSARRILMRQP RSAAAWMAALRGARDPKLITM VPHSKISRSIVRKGLPMTETQRR TETSKNYRPREQQTRNRQQQD PRQQRTVQTHQQEERRETKDN NTHTKPHETLARRHRRHNIHAL AAADLVIEAASEVWKSCKRSL HSWRKFAPTNAIDH
5032	35400	A	5073	93	729	SADPRNRDTRAAKFTRDAGK TDC*NL*THIETPDGDRYSRAG SCGPG/PLKRRNLNVWKSCKRSL HSWRKFARHKRY*PLTLRQSLY TAIAAEIKNPERVAGLHFFNPAP VMKLVEVVSGLATAAEVVEQL CELTLWGKQPVRCSTPGFIV NRVARPYSEAWRALEEQVAA PEVIDAALRDGAGFPMGPLELT GPDWAGPPFCCHLFGV
5033	35401	A	5074	145	1038	SILRLRQKRKQLTAYDFADNCD KALY*RNHRLIREILALVCAHD RQKK/YLPSLAGFL*LKNEINRL SVRGW/SRRRSFSVR*/PFTNTD RARSHFYQFVIIDELQSLFQSHA DRRNQNNGFVSTGSTHVGQFL TGQAVYSQVVRAAMNTDNLTF VNFCTVTEEQLTAILQTEQRER DRFTLTVRDQYAVLTLTHFTRT YVVVVAEGGVQQTSTGSHGHE LRTEANQTTAWDHVVETAAAF TVWIVHFQVALTFAQRLHYRT LMLFFNVQSHVFIRLLFTTVDF EDNFRGTGYRQFETFTTH

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5034	35402	A	5075	39	4329	YAPATFSAATQPTPKKINNPVP RNSAMHWQTRIQAQANGYWL EREQWLAVGEQWFRMEWSG PHRAAAGRLCHHHGNDATWH RG*FHLCFRPCV**RIEQPQEGY AIIMETTPPGTG VNFIVSDPAF DKGYAFDFFCLEPMSHAPDDH HRPEGGLIALAPGESTTSEMS LRVPVANCAVTTASLDSYYGE AMAIGERAPVALLDFAASARL AVGEALTNIAATQIGDIKRIKLS ANWMAAAGHPGEDAGLYEA
5035	35403	A	5076	1	625	MRASGTDEAVVLVPPIRMTLEQ ALEFIDDELVEGAAAAFEALE MMGSGRDREIRYGE GSP\WFDI \VPCGGGITLTLHKLRLSAQPLL \AVLNRLEQKKPVGLRYDPQAQ SLVCLPTQTRTGWNLNGFEASI THRALRTSRYDGQYYCQGPR LTIRRTVIMTGSSDPHDTTDSNN DRVLGPSRYDGQYYCQGPRTL TIRRTVIMTGS
5036	35404	A	5077	3	516	ATLSCEVVLENLAASPVVTTLE YTLFDGER\VVHSSAIDHLAIEK LTSASLAFTVEQPQWESAESPY LYHLVMTLKDANGNVLEVVPQ RVGFRDIKVRDGLFWINNRVY MLHGVNRHDNDHRKRRGVGM DRVEKDLQLMKQHNINSVRNA HYRKRRNKEVRTKKKIESIEEK
5037	35405	A	5078	3	678	ASYCTRNDLELVAVCDSRLS QRQALAEKYGNASVWDDPQA MLLAVKPDVVSVCSPNRFHYE HTLMALEAGCHV\QAREM/CD TARKLGKVLAYDFHHRFALDT QQLREQVTNGVLGEIYVTAR ALRRCGVPGWGVFTNKELQGG GPLIDIGIHMLDAA\MYVLGFPR /SVEDSLCGTIELHSGCILWLET S FALNIREHAIMNIRFCGDKAGA SVFPAHIYTATQR
5038	35406	A	5079	2	294	YSFMV\PIFGGRRWTVFSTAILI/ PCVWLGI VQNPNT/PFGIFIVIA LLCGFAGAN/FASSMGNISFFFP KAKQGA\PVFAF/LGVNGVPQA DGSVMSLAMP
5039	35407	A	5080	1	834	
5040	35408	A	5081	2	135	QYASALVSTAIALLL\CLAFLY PAAN\SEIHL\GVLSIFWGDPDG

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5041	35409	A	5082	1	324	MQGGYNIHPLIDALDDAKLAPI AAKALSHTLLMFDNFYDVEEK AKRGNEYA\QVMQSWAD/AEW FLNRPALAEKLTVTVFVKVTGET NTDDLSPAPDAWSRPDIPLHAL GC
5042	35410	A	5083	1	866	MGLAQAKLLIEAPVNGGRNYN GPKVAKFLVGGASLNDVYLHQ HDKYRYDRYHLIRNREKTHIM PEWVTQNIMNGRGVNRLLDDVN RPKSPEIKNDIRLFRQELRDAAY HFQGDADNDQLSVTPLVGLGK SSLLIK\TIFHRMRWAEQNLSICS SSFNRPAIFVRNIIQLLREGKKV EITVGDKHENDFYIPEDEPKIIG ALPYLYEINLRRFLSRLQYYVN TDQLVVRVW\KEDDN\TYHLAK GWWGDDKWMVITG\NKLDPR AWRLDLENAILIHDPQLELAPQ REKELE
5043	35411	A	5084	1	3483	VMFFFLPGLLMASWATRTPAIR DILSVSIAEMGGVLFGLSIGSMS GIL/SLGVVSETLWDT*C/HSWS RCPAH*SG**Y*/VLALWLTSP LFAVGLGVFGASFGSAEVAINV EGAAGEREMNKTGLPMMHGF YSLGTLAGAGVGMALTAFGVP ATVHILLAALVAQIAAWYKAL QEQIPDFIPRAPQRQMIADVAK TLAGEEGRHLAIEAPTGVGKTL SYLIPGIAIAREEQKTLVVSTAN VALQDQIYSKDLP
5044	35412	A	5085	1	848	MLVGKVVVSEGAFTHTGAVD TSKAYVSLNSGWTHIADITTTN QNTLLNLANLAMSDANVIMMD EPVTRSSVTASAENFITLTNTL SGNGNFYMRDMANHQSDQL NVTGQATAGDSLTLVTTGGGD AAFTLGNAGRVDIGTYEYLL DNGNHSWSLAENRAQITPSTTD VLNMAAAQPLVFDAELDTVRE RL\GSVKGVSYDTAMWSSAINT RNNVTTDAGLRAQAIKTVHHR QNRLIHFSNLNGSTFNVYRHFRR TKTCPKDAETNGKEQGRCQPE CQT
5045	35413	B	5086	75	1777	

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5046	35414	A	5087	1	860	MKAPGLPADQQFFADLFSGLV LNPQLLGRVWFASQPASLPVGS LCIDFPRLDIVLRGEYGNLLEAK QQRLVEGEMLFIPARAANLPVN NKPVMLLSLVFAPTWLGLSFY DSRTTSLHHPARQIQLPSLQRG EGEAMLSALTLSRSPLEQNIHQ PLVLSLLHLCGSVVNMPPGNSQ PRGDFLYHSICTWVQDNYAQP LTRESVAQFFNITPNHLSKLFAQ HGTMRFIEYVRWVRMAKARMI LQKYHLSIHEVAQRCGFPDSDY FCRVFRRQFGLTPGEYSARFQG
5047	35415	C	5088	86	601	
5048	35416	A	5089	1	870	
5049	35417	A	5090	305	625	VAPGDRHAFPLAPSGLSPELTLP QTQCCAQATVQGLEGTRWSQ SGTSSLSPWSHTSLRRRRKEEG EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEE/EEEGEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEAKTQ
5050	35418	B	5091	1	552	
5051	35419	A	5092	2810	3117	LTLSHMAPALIPILAMSAPMT PMKN/LSQVHAQGLVIRDLPLIA SNFRNTEDLSSYLKRHNIVAIA DIDTRKHAACAVPNTLVARGL RKHLKRVAAPQHWIAG

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5052	35420	A	5093	2	1902	LKYPMKRVGKRGEGKFERISW DEALDTISDNLRRILKDYGNEA VHVLYGTGVDGGNITNSNVPY RLMNSCGGFLSRYGSYSTAQIS AAMSYMFGANDGNSPDDIANT KLVMFMGNNPAETRMSSGGGVT YYVEQARERSNARMIVIDPRYN DTAAGREDEWLPIRPGTDGAL ACAIAWVLITENMVDQPFLDK YCVGYDEKTLPANAPRNAHYK AYILGEGPDGIAKTPEWAAKIT SIPAEKIIQLAREIGSAKPAYICQ GWGPQRHSNGEQTSRAIAMLS VLTGNVINGGNSGVREGATG SAVGEVVFNTSMTGYQEILTD\ LPI\PSNRY\SYP\ILAMSAPMT MKN/LSQVHAQGLVIRDLPLIAS \NFRNTEDLSSYLKRHNIVAIA\ DIDTRKLTRLLREKGAQNGCIA GDNPDAALEKARAFPLNG MDLAKEVTTAEAYSWTQGSW TLTGGLPEAKKEDELPHFVVAY DFGAKRNILRMLVDRGCRLTIV PAQTS AEDVLKMNPDGIFLSNG PGDPAPCDYAITAIQKFLETDVP VFGICLGHQLLALASDVEKNVV MITAQNHGFAVDEATLPANLR VTHKS\LFD RYVTGHSSHR*TG\ FSFQRHPEASPGPHDA\AP/LFD
5053	35421	A	5094	8	456	
5054	35422	A	5095	377	1228	KQARGRLCPAKPQGWSCPRPW QPTFC/GQCDLKVRPGVIGDHF GALKFDCPTGFRTCLGRITPLFL PSSPIWNGCIFPIPVPGGDCGEG VQIRSLSCMVHSGSISHAAGRV EDALCGEMPFQDSILKQLCSVP CPGDCHLTEWSEWSTCELT CID GRSFETVGRQSRRTFIIQSFEN QDSCPQQVLETRPCTGGCSPQA RPAAIRQCIPACRKPF SYCTQGG VCGCEKGYTEIMKSNGLDYC MKVPGSEDKKADVKNLSGKNR PVNSKIHDIFKGWSLQPLDP
5055	35423	A	5096	1	519	

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5056	35424	A	5097	1	743	MCPAIDAVLVYVNRKWTNLSDPMPVGQMGTVKYVLM SAPATTASYIQLDFSPVVQQQKGKTIKLADAGEALTFP/RGVMPKA/PPQLVVPATFLSAELALLQKSFHVNIQDTMIGELPPQTTKTLARFIEVAVAYPKSKPLTTQIKIKKPPKVAMKTGKSLHLHSTLEMFAARWRRKAPMSLFLLEEHLNKGQHSLHENQLQMATSLDRRGN/YTGFITSYLEEAYIPVVNDVLQVGLPLPDFLAMNY
5057	35425	A	5098	2327	3435	KTTTLEDNLGNTIQDIGPGKDFMMKIPKANATKIKIDEWDLIKLKSFACTAKATTKRVNKQDESLRSHYE*WGMLTDCVVMRDPNTKRSRGCGFVTYATVEEVDAATNARPHKVDGKVVPEPKRTVSREDSQRPGAHLTVKKIFVGGIKEDTEGFAFVTFFDDHDSVDKIVIPKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGRGGGFGGNENFGCGGNFSGHGGFGGSHDGGGYGGSGDGYNGFGNDGGYPGGGPGYSGGSRGYGSGGQCGNQDSGYGRSGSYDSCNKGGRGGFGSGSGSNFGGGGSYNDFGNYNQYSNFGPMKGGNF/GGRRSGP*GDGGQYFAKPPNHSGYGGSSSSSS
5058	35426	A	5099	1	636	MRDPNTKRSRGFGFVTCATVEVDAAMNARPCKVVGRTVEPKRAVSREDSQRPEDTEELHLRDYFEQYGKIEVIEIMTDQGSKKRGFAFVTFDNHDSMDKTVIQKYHTVNGHNCEARKALSKQEMARASSSQRGRSGSGNFGGGRGGFGGNDNFGRGGNFGHGGFGGSHGGGGYGG/SGDGYNGFGNDGGGGSYNDFVNYNNQSSHFGPM
5059	35427	A	5100	1	3622	MTGICYTEDERSYKKNAQPTAASKKQKETQKFLRVDGQQKVKLSVLQEKSAQLTVQLKSQKFLGHPTAGRGRSELCLDLPDPPEDPVALETRSVGTWVRERDLGMPDGEAALAAKVAVLETQLKKALQELQAAQARQADPQPQAWPPPDSPPVRVDTVVRVVEGPREVEVASTAAGAPAQRAQSLEPYGTGLRALAMPGRPESPPVFRSQEVVETMCPVPAAATSNVHMKKISITERSCDGAAEMKWEDQNIGD

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5060	35428	A	5101	1	782	MRRRLQLDSSLHPPSCFSSTLK CGKAAAAACDSSDQIQERLQT GHLPCASHTICPPNHHSQSTLR PPLPP\HNHTLSHHHSSANS LN RNSLTNRRSQIHAPAPAPNDLA TTPESVQLQDSWVLNSNVPLET RFWCCQRFLVFPGLQLQHLTLS LPVWSHGALPVSLCIFTWLSSH KDTSHFGLRVHLLSLPLEAKYS FYPGCPVLEPAPNPLKGPWCLW GVGTFRRYCTTFLFNESEPKDL VGEKFKSDRLCREAHLQE
5061	35429	A	5102	3	1864	
5062	35430	B	5103	1	525	
5063	35431	A	5104	2	351	RPAVGAEKSNPSKRHRDRLNA ELDHLASLLPFPDIISKLDKLS VLRLSVSYLRVKSFFQVKRQRR EIHGRNCQKKRNQNLKDRGWQ WQMPKMWMTTTRANEGPCRSG GPEHWTPRP
5064	35432	A	5105	1	375	RPLQKQRPVGAEKSNPSKRHR DRLNAELDHLASLLPFPDIISK LDKLSVLRLSVSYLGVSFFQG QGLAVADAEDVDDHTGERRP MSFRRPRALDTQALRRTQFGLH LLMVNIAGLIATDRL
5065	35433	A	5106	407	910	NVTPAHYDEQQNFFAQIKGYIR CILFPPDQFECLYPYPVHHPCYR QSQV*LDNPDYERFPNFQNVVG YETVVGPGDVLYIPMYWWHHI ESLLNGGITITVNFYKGAFTP KRIEYPLKAHNKVAIMKNIEKM LGEALGNPQEVGPLLNTMIKGP IQLACQGSRPPAR
5066	35434	A	5107	237	908	HEKPGRQRETRSQNHSHHHHH HHHHQEKIRIQTFTERP*EDTER SDCPQAKKRSPRRNQPC*HLDF ELPAARAATQPVNSGARAGRA GATVPRHTATLLLLHQRRDYA GGSLCDIDRAPDAKQGGKS*ES ETDSRFWKGTVC*DHTAGWVH GRPTTPHHSSPDSRNGGFQLHQ QIALAAGWREGASRPKQEPLQP GPEQGQRRGRREPVGKAPSG HQSHPAE

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5067	35435	A	5108	57	873	SGLCTAAFHHQMEVVHT*SVSS RS*R\PTTPVIAQWAHEQSGHG GRHGGYAWTQQHGLPLTKAD LAMATAECPICQQQKPTLSPRY GTIPQGDQPATWWQVDYIGPL ASRKGQRYGFAYLARNVSAKT TIHGLMECLIHGPHIISDQ GTHFVAKEVRQWAHAHGIHW FHHVAYHPEAGGLEWWNGL LKSQLQRQLGDNTLQDWGKVP QKAMYALIQCPIYGIVSPIARIH RSRNQGVKVEMAPFTITPSDPL AKCLLPVLVTLRSAGL
5068	35436	A	5109	1	311	QITMQPELPIMNWVLSVPSSHK MGHAQQH\QEV AQMPRVSTPA TLPSLPQPALMAPWTVPYDQL MEE EKARARYAGTIQKWTA AA LQPLSRTSLKDSGEGTSKW
5069	35437	A	5110	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEH LTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKI.HEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWTA VALQPLSGTSLQDSSEEKSSQW
5070	35438	A	5111	1	582	
5071	35439	A	5112	1	635	

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5072	35440	A	5113	2	1538	FFPIGFWRQHPRLSVLLQHIY* VT*KAASFEWGPKEKAL*QV QAVVQVALPLGYPDPADPMLL EVSVADKDAGCSLWQAPIGES QWRS LGFRSKALPSSADNYSSF ERQLLACYWALVETECLTLGH QV*TI*PELPIMNWVLSDPSSHKV GHEQQHSIIKWRWYICDWAVV GRESTTNGLAGWSETWKKHH WEMGEKQIWGRSMWMELSEW SKTVKIFVSYVSAHQCVTSTEE DFNNQWDGMTCSVDTHPLSL TTSVIAKWAHEQSDHGGRYGG YAGAQQHGLPLTKADLAMTTA ECPICQQQRPSLSPQYGTISQGD QPATWWQVDYIGPLPSWKGQR FVLTVIDTYSYGFAYPEHNTS AKTTVNGPMECLIH RHGIPHI ASDQGTRFTAKEVWQWAHAH GIHWFYYVPHHPEAAGLIGWW NGLLKSQ LQCQLGDNTLQGWG KVLQKAVCALNQHPHYGTVPSP VARIHGSRNQGV E V E V A PFIITS SDRLAKFLLPVSSSTSCSAGL
5073	35441	A	5114	488	966	ILVGSKGQSVCPGPSSSGTRGSS SPGVAVSNKAAATVGPQ*VTQ QEGGPGSRQRTRAGSPELVPA PSAVEGEEGSWTPGGPQVPRKR SAAPSRQR*HWLRCTPA*QRRG DWPRAAGRCHAARPPAAGSRA PTKISARPTRISRLGPRAASKAQ RLQRL
5074	35442	A	5115	197	421	KLKATMNSFHKS*SCALVSTRP CSPRGDPRATLTTPALVEPPCG TQDPKMAAEAPQRPGKRLGRN LLTRRRPT
5075	35443	A	5116	3	5649	LLEKLRQRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESIIQ QLQTS LHDNRKEVEDLSATLLC KLGPQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGG RDS LMSQAPISNQQA E V T P T GRLGK QTDQGS MQIPSRDDST
5076	35444	A	5117	2	157	YLGRHLCLFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER

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5077	35445	A	5118	248	621	TDEPSLLSHTFCPKGALLSACSG ACPLSSGTQAGMPPSTEALQPC RGLTVPHQ/LG*RPQGMLWWK ALAADWSVEWQKGRRGLGKA LSVTSRTGRLLCR*GSAEAAAS PLAASPRSSRALGAGIP
5078	35446	A	5119	2	157	YLGRHLCLFSEHEEHSSRKEMV LVEGLCSEQGRRG*TLASSER KPLENER
5079	35447	B	5120	125	994	
5080	35448	A	5121	1	550	RRYRPRRVQDPGGPAEAERGPP RRLNARVHVCRAEASERAPGP CGRVSAHVERARDPRLE*QLED KAAPRQDFTQQLRGPEKQHRM VWQEKEDMHKQLVEASETLKS QAKELKDAHQQKLALQEFLE LNELMAELYSQKQKVWDKEEE MEVAMQKADMMWQEI*RSKK LRKRMLFSQMRWL
5081	35449	A	5122	135	638	GSFPGPAPLGQTLVTGLAWQS SGWILRGWLVPRAKCSPRGQ ALAICLSLRGLGARSTWAETRP QGPRGSLASLCPAHMDLSIWKT GDGGPRSAFSKVHQGSLNTFG VDTAARRLSQARTAPSPSV\SAP SSAAAPASAGPPPAPGAPPTPA QALRPAPPSRPAER
5082	35450	A	5123	193	610	VGELLPFRFKISLRPFLALCLSSL GPCRQPHSGSVPA*NPLLGPR KSSPHSGCGLAPFAIPELLRRLP LEGAHCPAPEGAASPPTS WDS ADPPCRETSIFAPPRVVLTPGPS APQASPSQPLLFLTPRWDRLPES VL
5083	35451	A	5124	2446	2630	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPPRLG
5084	35452	A	5125	3	710	EDGDWDQRRGGEAGDQDQRR GGEDEDQDQRRGGEDGNRDQ KRDGENGDWDWKREDENKDQ DEKREGEDGNQDQRRGGEDGD QDQRRGGEDGNQDQRRGGKD GDQDQGRGGEDGDQDQREG EDGDQEQRRRGEDGE*DQRRG GEDGGQDQKRGGEDGNQDWS REGEDRD*HWRRGGGEVGE*DQ RRGGEDGE*GQRRGSEDGDWD RSRGGEDGDQDQRSVGHLCBS QGPPASGCVS

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5085	35453	A	5126	506	882	RCSGQGGFDGNKGTKALPTISA DTTRCWRTLRLVTQMTCRFRRF KAFFIGIMSCGRTGRILFPPCSS MSWIPCRAKNS*GNVISQSPSK NR/WQIMMVIQLLNFYLPGDFV SFRIMLKGNWEVTRTRG
5086	35454	A	5127	107	1327	ERRKRAVGGFDLVLGEQPSDKI FR*VIV*GLALWLPLSKSFVIP AELAINPSAKCKTDMTVMEDA VEVR*VWLQD*GLDSLEVLLDS FGPVRDCSKDNGGCSKNFRCIS DRKLDSTGCVVGLPCKLVVDS SGCYDRHIGVDCSDGFNGGCE QLCLQQMAPFPDDPTLYNILMF CG*VELPARPLDGRSCQLITETC PEGSDCGESRELP MNQTLFGEM FFGYNNHSKEVAAGQVLKGT R*TSYT*N*YQQLPDGLVVATV PLENQCLEEISEPTDPDFLTGE CAFSTLFGYPVLQHWKVR SVM YHIKLNQVAISQGEHCCRLSCD GATSRADFVALLDQFGNHYIQE AIYGFEESCSIWYPNKQVQRRL WLEYEDISKGEWHACWQILSTF PWIVISLHNCLP
5087	35455	A	5128	3	23	FYSAFLVADKVIVTSKHNNDTQ HIWESDSNEFSVIADPRGNTLG RGTTIT*VSIPPSL

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5088	35456	A	5129	1	2462	MRALWVLGLCCVLLTFGSVRA DDEVVDVGTVEEDLGKSREGS RTDDEVVQREEEAIQLDGLNAS QIRELREKSEKFAFQAEVNRM MKLIHSLL*NGIFLERLISNSS C\ALDRLSLISLTDENALSVNE* LTVN\KCDKEKNLLHVQHTGV GMT\REELVKN\LGITAIQWDQ ASFLNKMP*SHRKMGPVNLPEL IGPVWVSGFLFPPSLVADKVIVT SKHKQPIQHIWGVWTPNGIFL *LLDPRGKHS*DRGNRQFTLCP *KEEASDLPWNLDTIKNLRQKN IHSFIKFLIYVWSSKTETV*GA PWGEEEAKEEKEESDDEAA\V EEEEEEKPKTKKVEKTVWDW ELMNDIKPIWQRPSKEVEEDEY KAFYKSFSKESDDPMAYIHFTA EGEVTFKSILFVPTSAPRGLFDE YGSKKSDYIKLYVRRVFITDDF HDMMPKYLNFVKGVVDSDDL PLNVSRETQHQHLLKVRKKL VRKTLDMIKKIADDKYNDTFW KEFGTNIKLGVIEDHSNRTRLA KLLRFQSSHPTDITSLDQYVE RMKEKQDKIYFMAGSSRKEAE SSPFVERLLKKGYEVIYLTPEVD EYCIQALPEFDGKRFQNVAKEG VKFDESEKTKESREAVEKEFEP LLNWMKDKALKDKIEKAVVSQ RLTESPCALVASQYGSWNME RIMKAQAYQTGKDISTNYYAS
5089	35457	A	5130	45	416	RWGLAMFPSLDNKSETLSQKK KKKDLCPHISFEMDLTTADAR WVQDAATRLLATTRCPPNSRG SR**ISWRAGCCPGGWAGPHW GHDGCL*PSCVSSS
5090	35458	A	5131	3	477	GRLPRHRGGEPGAAQPAQRQP RGGAAATAAGAPRAGGGAAA GNARRCREAAARDPHHGEESG PEPSQCEGAHQHRAQAGD* GGSGATGEGGRRGHDSHNPLG RVRGSTLPPS**N*VGL*VPSWP QCGPAHPPGQHPALQEIHQRLP LESGGHRVV

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5091	35459	A	5132	3	446	RTGSWGWSASQQRHRKDRGL DSAGSGWVSHLPVPAPPADA RPSASRWRRQGSHPGRPTECP SVQPLCLPPPAGHHRNHSIASPS QTTPPRSLPGSQDKSLFLPRDRR TGE GEGHMN*APLSAPGTSCR GGSTSWLPEILGPTQ
5092	35460	A	5133	352	588	DIFKVGCCFLFKRLRCQQRFFL LIFSSTQSA*RVSNGPYH*EIK MAVYYGELRKNGLIQESCDNIQ PRQGSFNMDSMQ
5093	35461	C	5134	13	144	
5094	35462	A	5135	587	1078	LSQRFPLSSRIKLQRLSLQNGIP QIKELDYLFRFTNSNQINFNLLSH RVRARPPAPPGRPNPSPGPDPRP EPPARAGSSRRGPGEPRRRQPQ RRFRRRGPDPRGRLSRGL*RRR ARPASPQPRQHHSRGPAGRPGV APRRPAGLAAAAERLTARGAA ASPAIPRA
5095	35463	A	5136	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNR LPT*WEKIF AIYP
5096	35464	A	5137	101	861	LIGYQPKMSRTRRIHSRILPERIK YLGSQ LIRDVKDLLKENYKPLL NEIKEDTNKWKNIPCSWIGRISI VKMAIL/PQAICGKLKLDPFLTP YTKINSRWIKDLNVGPTTIKTLE ENLGNTIQAIGMGEDFMTKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTWENIFTIYP SDKGLISRIYKELNQIYKKKTR NPIKK*VRDMNRHFSKEDIYAA HRHMKKCSSLLDIREMQIKTTM RYHLTP
5097	35465	A	5138	3	314	LKSFCMAKETTIRVNR*PTEWE NIFAIYPSEKGLIYRIYNEATNK DLVRRSGPLKTPKKKSQLTVLN LVTFK RTPALSEEKESAQVLWQ FKKPECVLT SKRVH

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5098	35466	A	5139	1	1278	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPEMQGWVNIICKSI NIIQHINRTKDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLARAIMQEKEIKGIQLGKE EVKLSLFADDMIVYLENPIVSA RNLLKLISNFSKVSQYKINVQK SQTFLLHTNNRQRESQIMSELPFT IASKRIKYLEIQLTRDVKDLFKE NYKPLLN
5099	35467	A	5140	1	430	GGVFFLRTPTDCCGMLQGAAG STGFYASEARPRGPACSLDRGS SSLLSWGLHQDPLFPAKQHRR EAGRADQNSPRRLSTG*QTPT L*RRPAAATGRRRAQPPRATSV SAPASPPCPRARPPHARPPRVL ACQP*ATAPGP
5100	35468	A	5141	1	346	
5101	35469	A	5142	3	1336	
5102	35470	A	5143	5	283	
5103	35471	A	5144	1	1368	
5104	35472	B	5145	1	838	
5105	35473	A	5146	1	962	
5106	35474	A	5147	19	87	
5107	35475	A	5148	41	831	GLQNPQHQSSQLVDLKMKKSL LQCMFQYLIVLQ*YLK*YLGTTQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWIGRINIVKMA ILPKDPTTAQLSPRGSTAQKGH WRPCPLPPRGVPRSPRGPTSHP HHDPCCPGGAPVRNTGSEWQR KLRSQPKSDWAGRAQAPSLGE GGAKNKGSHPGSHRAFSLPRAP RRLGPGSQPGRFRGFLKQARGR AGEGHSAILLAPESPNAQVSNV TSATYRSNLSGLPRPCSVVLLG

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5108	35476	A	5149	1	2233	MKAEIKTFFETNENKDTTYQNL WDAFKA VCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEKEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAINKD KGDITTDPTIEIQTIREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE LRIKYLGIQLTRDVKDLAFKENY KPLLNEIKIEDTNKWKNI PCSW VGRINIVKMAILAQGNL* IYKFN AISI KL PFTFFIGL/EKNLTFKFIW NQKRSRIAKSILSQKNKAG\GI TLPDFQTITYKATVTKTA\WYW YQNRDIDQWNRTEPSEITPHIYT ILNFDKPEKNKHGGKASLFIK WCWENWLAICRKLKLDPFLT PYTTINSRWIKDLNLRCQIIKTL EENLDNTIQDIDIGKDFMTKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPIEREKIFAIYP SDKGLISKIYKELKQIYKKKNK QPHQKVGEQYEQILLKRRHLC QQTHESMAHHHWPCREMQINT TMRYHLTPVRMAIKKSGNNRC WRGCGEIGTLLHCWWDCCLV QPLWKS VWRFLRDLELEIPFDP AIPLLG IYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEYYAAIKID
5109	35477	A	5150	1390	3491	DLLTRTACAVPGWGCSSRATC QARGWRLSSPPHPSGVQPLLC HLPYPPSPFSLLSNLTPFLRAFPR SLETS*KWART/WPGAVAHAC NPSSLGGRGRWIT*GREFETNL TNMEKPCLY
5110	35478	A	5151	310	445	YLTKIWPGAVAHTCNPSTLGGR GGWIT*GQEFETSLANMVKPHL Y
5111	35479	A	5152	44	1132	PQVIHPPRAPKLELEQEPWRWH DLNQDTPSALCQH*RTC*HRAE GVSWFKSWIHLGGSCNSSLGA RGGWIT*GQEFETSLTNMAKPH
5112	35480	C	5153	183	323	
5113	35481	B	5154	504	2474	
5114	35482	C	5155	66	269	
5115	35483	B	5156	2414	3096	

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5116	35484	A	5157	9	239	HHHYCQHHHHHHHHHHHHHHH LPAPCRNLRV*PVCFRYKLWFH YGKQHLLFLDFLLSHSEWC VSHCGFDLHFSDD
5117	35485	A	5158	3	387	TDTKPLSCSSCPGRKKPVSHR DQ*RRWGRRCRGEPGTEACWS AGALQF*KPRSRGGRTSKMTSG PSAEKGGG*AGRKPGRRHFGRR VLRHSCVLPVARELWGRHGPC GWRQKNVPWKWSELLPVVAP
5118	35486	A	5159	1	277	MPPPPPPSESPGPGVGSRLPPG PAVTGNEKELRGNP*VGLAPPR PRFRASRREGVTGKVHRPNRLQ LRAPPKG*SDQRGQNVPPSEAK SLC
5119	35487	A	5160	1	3285	
5120	35488	A	5161	3	194	IPLSLQSKEVGQQLQDDLMKVL NELYSVNQMGCAL*QAEGSSI WQLAAIVHQQQN*TPSWGQ
5121	35489	A	5162	520	844	VQAPGKCHAQMPAAPVPLG RSRNPGRLASAVPVSSLLRFLPF LQPIPPSDILPLSFEAVPSSPAAE SGLHPCTRRRKRAPSC*VPGL LLSPQHPPPHVWRKGIL
5122	35490	A	5163	1	794	FRGFLDRGDCAALPCTYPHSPC SH*GGNCLPSLLTRPCVKA*PQ MSGRKSSMRRWRRQSRLTAGT SS*TPTSSTMC*ALVGSSTWNC MLQAGSTAPGAGTPGSRPTWS SSSTCSWTAPSGRARCACASS SCAMSAARRGWTSPACWRRTS RAWWTSSPACASSATASVAA STASTWPAARTTGGTAESSARP ARRASCTGSPARSCWRRRRPPT PSPGRPAPPSRRTRRAQAGTSA LSPGACFGPRSCC*SSTCSSLSV APY
5123	35491	A	5164	3	57	RIGQGVPPVHS*VEGGPNVISIV LEYLRDTPPVVVVCDGSGRAS DILAFGHKYSEEG*VKVFLWC THKWKEDPM
5124	35492	A	5165	1	1326	
5125	35493	A	5166	2	337	YSVTMTPGKLRTLCEIDWPALE VGWSSEGLDRSLV*KVLCPEL VPSGGFLVSLTSRMKPQTLTGS VKVLKDGMSGVCSFRCDVSR VSSFWWWVRGLAGWSTLLRKL
5126	35494	C	5167	339	548	

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5127	35495	A	5168	3	413	SQAFLPAASRRERPEPVDPKA TDPRSGTRRLPPRLPCQWTTPE HSHTSQLNLSRAFPKEPNPAAT Q*NPSGASPRERPHARAQEDRN GEC*EGNGSRPDLEEEASTPRA SPTPSD*PLWLHPPRPLVLETPL LQL
5128	35496	A	5169	3	479	FLHSTHIYWAHSMHELLKTAV VSISGQCTSLNTESGIWGGVPE NAR/CPPAEGTVPASLQPRDPPR LPGSH/ASLPASPPSRHVTWPP EP/EAAGPKPS*IRCWWPPAGAT TKANPKESGRLVESMLPLPKSR SAPVTFSAFACSGLPERVHEVF RVGKLR
5129	35497	A	5170	81	329	QSVSSPSWFPQFPVQVQKPCY QVYRGDLVV*KHVAPPPSLPSS FSGHVRHDCFPFAHDDRKFPE ASPAMLPVSSLGPHYL
5130	35498	A	5171	335	467	MPSTPTARKPESPEALARVESIA CLPSPAPHECSPQASEETG
5131	35499	A	5172	1	2424	
5132	35500	A	5173	2	304	CLTKNTSATREKQVTELHRRSK LQPEPAKTKALQTVIE*KDITLC *VKEHLYIVACWALRLHLVFLP TKAGISPALMKVSYPGKPLTLK QLGRLVILQEQ
5133	35501	A	5174	44	286	GVQNGVEELILVRRMQKSPGP GEMESGSLEKEPLGTQTGPVPS EGTE*TQGPRTPSLQTQGPQRT PSLQTQGPNTPSL*TQGPIRLTL SLQTQGPNTPSLQTQGPRTPS LQTQGPQRTPSLQTQGPNTPS
5134	35502	A	5175	206	384	KRVFAHQADGRARSGFISSAGP GSQAGPGQGTG*QREDVEAAG QPGSTAEGVRT*SDPG
5135	35503	A	5176	270	818	RNERKPSQRTAVGLGAGQLQP GQPGVQSEEPGLEAGCAAGV LPGPAEQDREGIYSK*KRVFAH QADGRARSGFISSAGPGSQAGP GQGTG*QREDVEAAGQPGSTA EGVRT*SDPGSSHAAAAFYEN IQDGEALGRCGAKRTATAAP*Q RG*EGF*AGPTAAEKNEEGPPP VFSLFNSHL
5136	35504	A	5177	122	436	LTSLFSAISTKAKVSPLC SARAC SPSPAARAALGSPGFTC*GAGV APTPVPVAAPAPATAPATAVAA AATTTVVSAAMFTRRATRAAA ATGAWGFVAGAPWPLQT

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5137	35505	A	5178	20	1341	MRRCVAAPLAHRW*QKLGLPG CTPTVCSFLSPQPPRARSSAT LSSGAPRRAATPQPQTTPSSVQ PCAATPCARGGRPAPAGVTWP TTRPSMA*RTS*ASTTAPRMAP PRSHACARSHRPETARSARTAP RSAITRRRAFTSTRPPPTTRTVAS SGHTSGLSPTASRLARCRAPG RSSTIIT*TCRSPTRLCCPAQRPL PPASSPSSSRTSRSVWTRRCTRL RWTSSRPPSWMALRTVGTSTGP TA*RSLRRCQASTWRSRPSTSA PPSWCARWAAT*PLPSACQRK WSMLWRTGTARVSTSACGAAP STSRSTSRPSTPMLRAPVPAGW QPPALHPQPPRPSHTRQPWPSA RRSCRWRTCTTRPASSTSSPRA T*TSHWPPTTRWRMSRCSTPTK TNCTCMRGLGTCQAGRLRGCP WPPGPSWAPWSRSWPCSLCSA
5138	35506	A	5179	47	598	ASGPASIVVLRQQFIKFFLDEICS LEERVWCRKLCCLLYILWKEPR AVQAKSRCSDIRRELYRPVSLA GLSGDFLRAGRYSAHTVNGAW SAWTSWSQWA**SRGLLLALH NMLKIIIAFCSLQVATRIQSTFIS SWHLSPSLLGSRFSLYMSFGS VLCPLFISHDTSSYSTKSFQSFSC LGVW
5139	35507	A	5180	236	690	LQNWSYLAEQCWNGGFIYLM LRRFKHKAHSTYNGNSSNSSEP GETPTL*LGDR TAKKGRTRKF GVISRPPANKAPEESKGSAGCE VSSDPSTELENGPDPELGNGHV FQLENGPDSLKEVAGPHLERSE VDRGTEHRIPKTDAPLTTSN
5140	35508	A	5181	2	480	WPFWAMVQRPSSAILCGPATLP PNCRGACCARCRATGALSAYP AIHRPATRPPAPPAGPLTSPPL SVQNSNPDLPSARPSGPAAPR HARHSPSELPA TL SARGSSAL CTKLKVEAAA*SCSASAWNWR LLPRNHVDSRCQPEPDGARARD GRGP
5141	35509	A	5182	3	153	
5142	35510	A	5183	3	239	
5143	35511	A	5184	1	394	
5144	35512	A	5185	1	435	
5145	35513	B	5186	84	2068	

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5146	35514	A	5187	149	832	DAGLSWREATRPGAPLHRPGC QDASTQMTRPGDPGSSALFPLP SP*PEREELPMSSRRSPKPELPG EACSRPPTRRPRRTATRGPPLN GRLPRARLPVSAGAGALGGGR CRRRVAPRRVTPRLATRPSGVA PRGSG*AATTKLSLAFGVTPLA LTPWSRTPFKREERPPF*YPRP ATPEASPAHVENFRSNQTRYTS AE*SGQQLERPSIAEISAQATVE PRSTI
5147	35515	A	5188	45	312	AEAQGGAEAEHGGGGGPAPS QGCPARAAGARGWQPAPSPQK PATPSDTTPPPRTQPPVTQPCHP VTQPPVTQPPVTQPRHPMKIPPP G
5148	35516	A	5189	15	549	PRHKEPESQAPGRRAPQAAAY QQAASPAR*QGGSCSRCPG*A VEAAPAP*GQALGCVSQGPA*V GPTRSPHPTAGLSRPHGPPSVRS TGWSPSSRPLQAQEAPWPVAPT HIPPLDPGQPHSCGLGAGCQP RAPAARAGHP*EGAGPPPPWP SASAPPCASAPVLWLRFPRET KT
5149	35517	A	5190	1	2445	
5150	35518	A	5191	1	708	FSEGRNRFLNVGPTRFSTSRQTL MWIPDSFFSLLSGRISTLRDET GAIFIDRDPAAFAPILNFLRTKE LDLRGVSINVLREAEFYGITPL EKIKMEYCFSVCMYS*QVCFE MFLVRLLLLCEELERSSCGSVL FHGYLPPPGIPSRKINNTVRSAD SRNGLNSTEGEARGNGTQPVLS GTGEETVRLANTIDSKYVAND DWLIFQYVDEEDLMNAIKDFSS VTKERTTFTDTHL
5151	35519	A	5192	31	330	YGGTATVQRWAESRHVPFPPS QEQNANKICSVCEEKDSADSY GEIPWWQGPWCWPVRLMLAT LGDYKWVLTGIGTDS*LGFTIPT DHANAFSAKEIPQ

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5152	35520	A	5193	1	734	MISEVIVIQMLFLHAFSKVFSAL IKNNKKPLQDAQIKWKAISGLS GGMRRSECNRRERDQVTRTQCR DISQK\RGPGD*GMATSKNGAM A*QLGPCQCGDASTGNAEFGES AHAWSGGGRVPGVTGPDREEV GRSWQGTSCGGGTSGCGRLQ* DGVASRGRW/DPARPREQRAG VRQLAAPLGGP*SRRPWEPGG SSCGRYLFAISSWSGVTVAQEG QRKRGS GK*RTERSGPGLGRRRL PLLLLTV
5153	35521	A	5194	3	449	EGQRSSSPATALSSSGPPSLKM ATSKNGAMA*QLGPCQCGDAS TGNAEFGESAHAWSGGGRVPG VTGPDREEVGRSWQGTSCGGG TSGCGRLQ*DGVASRGRWDRR DRASSGRESGLHHS GARSLG APGSRPVEAPAAGSEAKTPG
5154	35522	A	5195	606	841	CTVGFALPVFY*GFSH*CSSGIL V*NSRFLLCCLQALVSG*CWPH KMS*GGFPLLLLTGIVSEGMPV ASLCISGRIQL
5155	35523	A	5196	620	930	IPFISFSLIALARTSNTMLNRSG ERGHPCLPVPVFKGNASSFCPFS MILAVGLS*IALIILKYVPSIPNL LRVFSMKGC*ILSKAFSASIEIIM WFLSLALFI
5156	35524	C	5197	1	819	
5157	35525	A	5198	591	815	
5158	35526	A	5199	187	387	FFKTICFMRVRVKRPPNRLCVS NMAVYFTWVQAGLHCESYPEH L*WSCRLPRRLGGVRL*PLEGE
5159	35527	A	5200	1	1197	
5160	35528	A	5201	119	375	ILDISPLSDE*IAKIFSHSVGCLFT LMVVSLAVQKLFSLIISHLILA FVAIAFGVLDVK/CLVHAYVLN GIA*VFF*GFYGFRSNI
5161	35529	B	5202	1	1053	
5162	35530	A	5203	2	157	
5163	35531	A	5204	12	176	
5164	35532	A	5205	2	223	QTVLEDSPRARWIF*G**GTIC SIPIPSFWWFSSNLSHSFVCRSP SSSPGGLPMCTCVSKFPWAVW PFSRY
5165	35533	A	5206	61	308	

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5166	35534	A	5207	487	898	DFAEVAYQLGISSGVCRTTDFH EPRMLLSDRSSGSFVTI\SVFLS FSSLKCL*SPLVHDALHQAHP GKSRLRFLGSMACCMKFTCPP TLSTVPSSTPFSFCSLIKTRSAT LLKLWSISLRFRLLHSWSSAFRV
5167	35535	A	5208	9	191	IPQHIYPPKTKPGRI*ISE*TNNR L*NCGNDQ*LINQKESRTRWIH SRILPKTNREPNHE
5168	35536	A	5209	1	1989	
5169	35537	B	5210	1	1488	
5170	35538	A	5211	929	1209	IPFISFSCPIALARTSNTMLNRI ERGHPCLVVPVFKGNASSFCPS MILAVGLS*IALIILRYVPSILNL FRVFSMKGC*TLSKAFSVSIEII
5171	35539	A	5212	242	642	FSLKRSFTSLVSWIPRYFILFEAI VNGSSLMIWLSVCLLLMYRNA CDFFPLILYPETLLKLLISSSSLY LW*NSAVNLSGPGFLVGRLLII ASISEPAIGLFRDSPSSWFSLGR VYVSRNLSSSRFSSLFV
5172	35540	A	5213	747	885	
5173	35541	B	5214	115	1267	
5174	35542	A	5215	209	322	
5175	35543	B	5216	1	3321	
5176	35544	A	5217	390	655	CLFPVHYPRLHAMMHQMKNP VLVLGIGGFILGILGVIGGPVSLF KGS*KLLGLIETGKISLDHPVPG GTPTKMALYEHFMNTKEFGIE
5177	35545	A	5218	3	221	
5178	35546	A	5219	798	914	FVFLWDRW*YPLYHFLCLFDS SLFFSLLVLLAVYQFC
5179	35547	A	5220	12	460	YLCMLHEVLVLCFSVPSGHFSF SLN*LF*LAVPVTIFYQGSLFLA QA*ASQVDFRQLCWQQEFQAS GS*LAGLHGSGIH*ARPLGSWL QLPFQSEWFCLSGVPGATVVS /CTF**SPF*LV*DGISLWF*FAFL *WPVMMSIFFMCLLAA
5180	35548	A	5221	3	508	AERNGSRQGVGAGAGDHEVLQ LLPDKWKQKILCPVQLLRGAW SNYYSPDANRQP*VQGNALHF AECWPHGEDSQPTVPTSQGRM LAGPARHLPHPHVPSPSGSLRG SDSEDTH*GTVAGSGCLHCLAP GHLHPGWPPSRVLPIDRSVHQ GPGRKAPPTPPRVTPFLT

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5181	35549	A	5222	584	1052	LRKAAASGSFVFVAPDPNTDTG SSQCSESESGSRGCSMGHQ RSL QHYYHHHHHHHHQHHHHHHH HLD TGWRGE*SRHSAGLCPPSQ RRLHSCQTSPSCSPPSGHRCI*LT GIEAA*CHSL*PYQKDACHHFE EHSPPP*RPHLPRHHLHPQPSS
5182	35550	A	5223	1614	2308	LRKAAASGSFVFVAPDPNTDTG SSQCSESESGSRGCSMGHQ RSL QHYYHHHHHHHHQHHHHHHH HLD TGWRGE*SRHSAGLCPPSQ RRLHSCQTSPSCSPPSGHRCI*LT GIEAA*/WS*PLTL SKRCVSPLR RAQSSSVTSSTSAQASSAPPEKK *L*PERPYSSPHASVADLQMC LPLNRITGQTNRPLHRAILLRW MRSCNLLTCTVLSNVSFSELS YSRNTMCRG
5183	35551	A	5224	3	407	SVGLILPSSLQHYYHHHHHHHH QHHHHHHHHLHQ RKLAPPLC* ADLPTCAPHQGIRPFGGFPQTS GSPGLPVYAE EQTERLSLQGT GCGCQAGLLCWGPPVASTSVG FSLESSVSPEQVPLSPGPAGTDA
5184	35552	A	5225	1	1287	
5185	35553	A	5226	3	1315	STMALLHSGRVLP GIAAAFHPG LAAAASARASSWWTHVEMGPP DPILGVTEAFKRDTNSKKMNLG VGAYRDDNGKPYVLP SVRKAE AQIAAKNLDKEYLP IGG LAEFC KASAEALGENSEVLKSGRFVT VQTISGTGALRIGASFLQRFFKF SRDVFLPKPTWGNHTPIFRDAG MQLQGYRYYDPKTCGFDTGA VEDISKIQSVLLLHACAHNPT GVDPRPEQWKEIATVVKRNL FAFFDMAYQGFASGDGDKDA WAVRHFIEQGINVCLCQSYAK NMGLYGERVGAFTMVCKDAD EAKRVESQLKILIRPMYSNPPLN GARIAAILNTPDLRKQWLQEV KGMADRNGHAGLQLVSNLQG REG\STH\NWATHSPTKLGMFC FHRG*KLEQVERLIKEFSIYMTK DGRISVAGVTSSNVGYLAHAH
5186	35554	B	5227	57	386	
5187	35555	A	5228	1485	1883	
5188	35556	B	5229	117	641	
5189	35557	C	5230	1	552	
5190	35558	B	5231	250	378	

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5191	35559	A	5232	3	1117	TPDPGQGCSEGGIVHETRPSPQP LCQGSCAVGCSPLGLLR*RMM ALGKIPPGHRGPAFLPAVESAH VVPGLPGLTRETLPAPLGPHRPP QPPQGPLSTAPPAPLVSPLGPHV PGLPGPPPGCPSPLPLRPCPPPS WLRPHRPVQPWWGT*GSGWRP RCRPGAAGRNPGLPRACCRGL CRGPH*RPGGPRPGHSGPRTSS WGRTMGNRPRPSASAG**PRHR R*TSAERPGSPQQSASRTGGRS PLSHPGSWWGVMPGLWAG APSMWG*GPGSRVAGGSGRRP TSRPPHYPPHPPGTWPSPAQS GRR*QAQTPGAATEG*GGWGL PPKPWCPQDQFLGVQDWVLP NGARVGGTWA WKRESVLVPG
5192	35560	C	5233	229	522	
5193	35561	A	5234	1	972	MTAEYYKLKQVVTPIAAAVPD VVSLLQINISLCTWYAVIDLG NACFYIPVHKAHQKQFAISRHG QQYTFTVLLQ/RRDLDFSLPQ DITL\VHYVDGIMLIGSSEQEVA STDLLVRHLHARGWEINLTKI QGLATSVKFLGVQWYGACRDI PSKV KDKLLHLAPPTTKKEAQH LAASFEGWPEQKGLQQVQVAV QAALPLGLYDPADPMVLEVSV ADRDVWSLWQAPIGESQWRP LGFQNKALPSADNYSPFERQLL ACYWALVETEATPVITQRAHE QSGHGGRDGGYAWAQQHGLP LNKADLAVATAKCPISQQQRPI
5194	35562	A	5235	3	246	
5195	35563	A	5236	3	841	
5196	35564	A	5237	1	746	RDLDLFSLPQDITL\VHYVDGIM LIGSSEQEVA STDLLVRHLHA RGWEINLTKIQGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGWPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSVADRDVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPFERQLLACYWALVETE ATPVITQRAHEQSGHGGRDGG YAWAQQHGLPLNKADLAVAT AKCPISQQQRPISS
5197	35565	A	5238	1	483	
5198	35566	A	5239	1	1908	
5199	35567	B	5240	1	2718	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5200	35568	A	5241	522	693	LDFFLVFLQQFLPRPSSSEI*MLP GFPAAAYGPVAAA AVAAARGS GRKVYGTGDSQA
5201	35569	A	5242	1	225	MGRNQSRKAENSKHESTYSP KDHSSSQAMEQSWTENGFEKL GFRRKEALYYLDLTASCQSQEL FQKWVSLCCPD*S*TYSPKDH SSSQAMEQSWTENGFEKLGR RKEALYYLDLTASCQSQELFQK WVSLCCPD
5202	35570	A	5243	1	1129	PWISAPVPVDVVEGAMDSVTV LSFGGLMLYFCAGWPPARRWC FPESISCGSMERDQWWGLQVA KAGLAGGQSGRTVLRERVRIE IASTHIALAARHSDWRCCRNGR YPARGPAALQNFQRYTGIQHV HRIGMAERMWCDNRNRHTVS SSGGNRLPNPGPDRSCDNLKTC HTSHGSVMAETA VINHKKRKN SPRIVQSNDLTEAAYSLSRDQK RMLYLFVDQIRKSDGTLQEHD GICEIHVAKYAEIFGLTSAEASK DIRQALKSFAGKEVVFYRPEED AGDEKGYESFPWFIKRAHSPSR GLYSVHINPYLIPFFIGLQNRFT QFRLSETKEITDPYAMRLYK\SL CQYRAFVNGGGEEKARGKPIL CRYGVGM

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5203	35571	A	5244	1	1753	MVDSLIA RVGVMARGNAITLP VCGRDVKFTLEVLRGDSVEKTS RVWSGNERDQELLTEDALDDLI PSFLLTGQQTPAFGRRVSGVIEI ADGSRRRKAAAALTESDYRVLV GELHDEQMAALYRLGNDYRPT SAYERGQRYASRLQNEFAGNIS ALADAENISHLHIHAEDTFLPFY LGKKDDVTYAIKPTCWPGLDII PSCLALHGIEIELMGKFDEGKLP TDPHMLGLAIETVAHDYDVIV IDSAPNLGIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRDL LKNVDIKGFEPDVRILLTKYSNS NGSQSPWMEEQIRDAWGSMVL KNVVRETDEVGKAVINHKKGK NSPRMVQSNDLTKAAYSLSRD QKRMLYLFVDQIRKSDGTLQE HDGICEIHVAKYAEIFGLTSAEA SKDIRQALKSLAGKEVVFYRPE EDAGDEKGYESFPWFIKQSEE/P QSGNFYTDTLGMAEFRRGGLR ATAGPRLSRTRDCQGTEKVHG KTVFDKTVP/WVPKRLKSPSCK NRWP*KMQKLSVCTASSPGQQ LSTVRVTQREICFPVVRREVL IGTLTQTRKGQISVRA
5204	35572	A	5245	337	1977	

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5205	35573	A	5246	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKRRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG/LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
5206	35574	A	5247	1	1383	
5207	35575	A	5248	1	1731	
5208	35576	B	5249	1	1290	
5209	35577	B	5250	1	3345	
5210	35578	A	5251	1	1959	
5211	35579	A	5252	3	2356	
5212	35580	B	5253	334	1710	

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5213	35581	A	5254	1	1302	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRRAEDVFPPV NVSKSDDTLKINGVEDHKTIFD GDGKTYQNVQQFIDEQNYTSG DNHTLRDPHYVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGHIENNDYTLK KVMKPLITSNTCDNLKTCHTSH GSVMAETAVINHKKRKNSPRIV QSNDLTEAAYSLSRDQKRM LFVDQIRKSDGTLQEHGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPE/EDAGDE KGYESFPWFIKRAHSPSRRLYS VHINPYLIPLLYRVPNRVTQFRL SETK/EITHPYAMPLYESLCQYS
5214	35582	B	5255	1	1452	
5215	35583	A	5256	1	1323	
5216	35584	A	5257	1	1557	
5217	35585	A	5258	1	2259	
5218	35586	A	5259	1	2418	
5219	35587	A	5260	1	1218	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRRLRRAEDVFPPVI GVAHKERNQNISRYISNRLAR RECHDSPEEGTGNTRSKERLQG RLPSRGLTESQEHLLDTRKQFW FEDFKDGLGPILKCDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIKRAHSPSRGL YSVHINPYLIPFFIGLQNRFTQFR LSETKEITNPYAMRLYESLSAS NYQRMDFRRRFLQVCVMEIN KQTSMLSYI
5220	35588	A	5261	1	2028	
5221	35589	B	5262	1	1653	
5222	35590	A	5263	1	1446	
5223	35591	A	5264	1	1788	
5224	35592	A	5265	22	1893	

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5225	35593	A	5266	1	2144	MEKKITGYTTVDISQWHRKEHF EAFQSVAQCTYNQTVQLDITAF LKT VKKNKHKFYPAFIHILARL MNAHPEFRMAMKDGFIENMFF VSANPWVSFTSFDLNVANMDN FFAPVFTMGKYYTQGDKVLMP LAIQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWME EQIRDAWGSMVLKNVRETDE VGKDTGVRKISGVKMPMGV AVVNCCTYGSDYRVWLASWM MSQWLHYPEWYRKENKHKFY PAFIHILARLMNAHPEFRMAMK DGELVIWDSVHPCYTVFHEQTE TFSSLWSEYHDDFRQFLHIYSQ DVACYGENLAYFPKGFENMFF VSANPWVSFTSFDLNVANMDN FFAPVFTMGKYYTQGDKVLMP LAIQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWME EQIRDAWGSMVLKNVRETDE VGKGQIRMGTLEFFRLSETKEI TNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFRRRFLQCDNLKTCHTSHGS VMAETAVINHMKRKNSPRIVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASMDIQHAL KSFSGKEVVFYRPEEDAGDEK/ GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFLLSE
5226	35594	A	5267	1	1167	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYNV VFALAGSPEDADDTSIYMFYQK CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK AHSPSRGFYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAMR LYESLCQYRK\PDGSGIVSLK/ID WIIKRSQLPQSAFYQPFMGLRR ESFYFRWERRTLGPLKSFVSKR GTEAGKFRLAALLVRL
5227	35595	A	5268	1	1395	

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5228	35596	A	5269	1	1375	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KIRRKNGPVSATFTSDGKIRLFY TDYSGKHYGKQSLTTAQCDNL KTCHTSHGSVMAETAVINHKK RKNSPRIVQSNDLTEAAYSLSR DQKRMLYLFVDQIRKSDGTLQ EHDGICEIHVAKYAEIFGLTSAE ASKDIRQALKSFAGKEVVFYRP EEDAGDEKGYESFPWFIKRAHS PSRGLYSVHINPYLIPFFIGLQNR FTQFRLSETKEITNPYAMRLYES LCQYRKPDGSGIVSL/KIDW/II/ RYQLPKVPSPEARKITRRWRIV KQRI*LGFLRLSEMPRKQGDY RTRIWKFEGLSNVLVIQLNKLI ICVMCLVRDCDVLKTYFHR
5229	35597	B	5270	1	1668	
5230	35598	A	5271	1458	2675	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTEAAY SLSRDQKRMLYLFVDQIRKSDG TLQEHDGICEIHVAKYAEIFGLT SAEASKDIRQALKSFAGKEVVF YRPEEDAGDEKGYESFPWFIKR AHSPSRGLYSVHINPYLIPFFIGL QNRFTQFRLSETKEITNPYAM/R IPLH*LFR*TLRQTKPDNSAGKC VKI**HTQNQRSGRSQND*RR GI
5231	35599	B	5272	1	1317	
5232	35600	A	5273	1	987	
5233	35601	A	5274	1	571	
5234	35602	A	5275	1	4161	
5235	35603	A	5276	1	1228	
5236	35604	A	5277	387	3466	
5237	35605	A	5278	1	6721	
5238	35606	A	5279	1	1651	
5239	35607	A	5280	5082	5879	
5240	35608	A	5281	1	231	NHLAVRRLTELSGGQRQRAFL AMVLAQNTPVVLLDEPTYLDI NHQVDLMRLMGELRTQGKT VD*VRDLNQVSRYC
5241	35609	A	5282	1	303	CLRILCPYPYIPLTEKTLA*PAL YTLELTADMAETCKQFLPEFSL TFSFQRGWEKETEYAEVLERNF ERDRQLTYTAHGPHKADLRIQE SGVPYNEILVTL

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5242	35610	A	5283	1	273	TNSSVGPGDRLL*QTAAPHRGK LKVFFGACAGVGKTWAMLAE AQRLRAQGLDIVGVVETHGR KDTAAMLEGLAVLPLKRQAYR GRHISEF
5243	35611	A	5284	66	1200	HILPAGHPTLRHSLFPHQQGRSS VQSALGAASGNGLKLVGRFEW GPSRRARSGYPDATGYDQPKPI SAAVKEFFGSSQLSQFMDQNNP LSEITHKRRISALGPGGLTRERA GFEVRDVHPHYGRVCPIETPE GPNIGLINSLSVYAQTNEYGFLE TPYRKVTDGVVTDEIHLSAIE EGNYVIAQANSNLDEEGHFVE DLVTCRSKGESSLFSRDQVDY MDVSTQQVVSVGASLIPFLEHD DANRALMGANMQRQAVPTLR ADKPLVGTGMERAVAVDSGVS GGVVQYVDASRIGIKVTKTRCI RVKQVSTSTTLPLFLMESNPLF WMAVLVSAGILGQWPIGRAD KFGRLVLVRVQVFVILGSIAM
5244	35612	B	5285	1	862	
5245	35613	A	5286	1	579	DPRD*RLKVAK*MVTLFGPQFV RELQQRGFDIFLDLKFHDIPNTA AHAVAAAADLGVMVNVHAS GGARMMTAAREALVPFRPDAP LLIAVPV*RSIKASDLVDLGMTL SPADYAERLAALTQKCGLDGV VCSAQEA VRFKQVFGQEFKLV TPGIRPQGSEAGDQRRIMTPEQ ALSAGVEYMENGRPGTQSVK
5246	35614	A	5287	484	978	GIVRIPHLADIKCWRVAVLYNY THYSYQANLCCANLE*ADLSGS VLDCANLQGVKMLCSNAEGAS LKLCNFEDPSGLKANLEGANLK GVDMEGSQMTGINLRVATLKN AKLKNCNLRGATLAGTDLENC DLSGCDLQEANLRGSNVKGAIF EEMLTPLHMSQSVR
5247	35615	A	5288	3	504	YRLSQSSSKSLVSRSWLNMRFIS SVMFMEPTSSSENRTSPSCSE MSSSEATLRSFFLGTTSPCRSM VGLQLVKSSQSSSVSSFSSHVRL SQSSSKSVSRLAGT*EGSEKRS FREEKVPCLRLGLPESTLYAHC SV*SRTHVFSGTSHHSSKVAVG MSIVQMRKL

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5248	35616	A	5289	2	442	HVIWHMPRKTSKCRQLCSGA SRNADTAARQSTCSSHRPPGKIP SLGPRRVPGCSSVPSSRGEQSTG SPAAPRCGDVTHTEASQEEQP* LRGTHGPASTPEQGTAKAKVR DRRAVVHPGKTGIPSAAG*KGR GRPGEPPGAHVQVE
5249	35617	A	5290	151	1185	YVDQVTHITESPLPSVSYSFAFG SLISAVDPVATIAIFNALHVEED TEKGHVRLTPASPSTFFFFSTE EKYAPGSCCRKAAVL*LLHISH QLSLDSPSLTVVIYVLKHIDLRK TPSCRHCEI*VGDHTAVLSVLFS PSLGIMAILFSGIVMSHYTPREA SP*SCCLFTVSSHTVCCHPGLRG AIPYALSLHLDLEPMKRLQIGT TTIVIVLFTILLGGSTMPLIRLM GLPGGAPRWQQLVAVGPPFLP AQGNTVESEHLSLTEEEYEAH YIRRQDQLSLFN*N*SCLWPSPC LPPPP*TPHTKHPVASPPFHGPA PDALTAWLCLSTQDLHHGRIQ MKTLT
5250	35618	A	5291	5	198	VCGRQQSLEAGL*GAATPFAVF PRPWSAVRVKEYGYTRLHILN GTHIHQQVSDDQAFACHP
5251	35619	A	5292	137	308	HLERTGPNLPPGARLATRPTTR LPAASPRGRDTPLPIPISEYSETE AKGEAPYIEPE
5252	35620	A	5293	612	1078	RPPEKKERGRVRGRRGGGGK RRRRKRKKRKSGKGREDA AAAAQSPRTRAPAD*ERRPQ APSARAPRPLPAPRRSRPAQV PPDSASPWAAAAGLALPPQCP GGGARPLRLPQPPAPGGTAR WEPRRPRPAAAPGLLQSPGPLP RQS
5253	35621	A	5294	515	817	LALPHLPSNLLKGWLKKA*S RPSRTPSFG*LSQWKHALKRLK PVITCLLQHGFLLKPINSPYNSLIL PVLKPDKPYKLVDRLINQIV LPIHPMVSQA
5254	35622	A	5295	1	951	
5255	35623	A	5296	1	1077	
5256	35624	B	5297	87	1423	
5257	35625	A	5298	29	234	
5258	35626	B	5299	77	327	
5259	35627	B	5300	1	235	
5260	35628	A	5301	2	2144	
5261	35629	A	5302	1	855	
5262	35630	A	5303	845	1057	

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5263	35631	A	5304	1	933	
5264	35632	A	5305	1	954	
5265	35633	A	5306	1	1603	MEAEKFHQMPVSRRTRKASG VIQSKSENLRTRGANSHALKRL KPVITRLLQHGLLKPINSYPNSPI LPVLKPKDPYKRFLAFYGWSPR SLIVDSCSKLEQHSTLSRVILVIY KGFCRFRNHHQTGFSPAGANQ RGPLAATLSGPGGEGQSAVACL TGEKKNHPGAQYANRLSPRVG RFINAAGTTGFPTGKRAVSATQ LMDFADF GTTITQDFRLLGQTS VDRLLQLSQQA VKGNQLLPV SLV KRKTT LAPNTQTASPRALA DSLMLARQVSRLESGQSSQLS SLRLTLPDRLRSPLDHHGRRAS GNSHSGSPKPPSCLPLISPHLNP QVWDISTPSLATDHMPITIPKLS NVTLTPLNLKCQYPIQHALKRL KPVITRVLQHGV LKPTNSPYN PILPV LKPKPYKLVDRLRLNH IVLLPIHPMPNPYTLLSSIPPSTI HYSVLDLKHAF TTFPHPSQPL LAFTW\TDPDIHQAAQITWAVL P\QRFPR TGPHYFNQAQISSSV TYLGIIKITYVLSLPVSD
5266	35634	B	5307	1	874	
5267	35635	A	5308	144	539	
5268	35636	A	5309	1165	1639	PHPAVASRRGRAGPGGLSAPER TPSSELSPLSKGDLRKTHRTFSP Q*GDLRKTHRTFSTR*GDLRKT HRTFCTR*GDLRKTHRTFSTR* GDLRKTHRTFSTR*GDLRKTHR TFSTR*GDLRKTHRTFSTR*GDL RKTHRTFCTR*GDLQKTHRTFS TR*GDLRKTHRTFSTR*GDLRK THRTFSTR*GDLRKTHRTFCTR* GDLRKTHRTFSTR*GDLRKTHR TFCTR*GDLRKTHRNFSR*GD LRKTHRTFSTR*GDLRKTHRTF CTR*GDLQKTHRTFSTR
5269	35637	A	5310	235	453	SHWPWLCSSTSCSSQRSIVSSG MARGPFLRKRDLLFPPPPGSH GLELLEIIFHQGISQVHLLHLQ VWL*NLNVPDSSLPAENEATGP GFVPPPLAPVRGPLFPV\ARGP FLRKRDLLFPPPPPG\AM\FGASR DYFPPGDFPGPPPAPFASMAFL N

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5270	35638	A	5311	2	2333	TGRGYCGDHESFGAMEEPGA TPQPYLGLLLEELRRVVAALPE GMRPDSNLYGFPWELVICA VGFFAVLFFLWRSFRSVRSRLY VGREKKLALMLSGLIEEKSLL EKFSLVQKEYEGYEVESLKD SFEKEATEAQSLEATCEKLNRS NSELEDEILCLEKELKEEKS EQDELMADISKRIQSLEDESK KSQVAEAKMTFQIFQMNEERL KIAIKDALNENSQLQESQKQL QEAQVWKEQVSELNKKQVTFE DSKVHAEQVLNDKESHITLTE RLLKMKDWAAMLGEDITDDD NLELEMNSESENGAYLDNPPK GALKKLIHAAKLNASLKTLEGE RNQIYIQLSEVDKTKEELTEHIK NLQTQQASLQSENTHFENENQ KLQKQKLVMTELYQENEMKL HRKLTVEENYRLEKEEKLKSKV DEKISHATEELETYRKRAKDLE EELERTIHSYQGQIISHEKKAHD NWLAAARNAERNLNDLRKENA HNRQKLTETELKFELLEKDPYA LDVPNTAFGRGSRGPGNPLDH QITNERGESSCDRLTDPHRAPS DTGSLSPWDQDRRMMFPPPG QSYPDALPPQRQDRFCSNSGR LSGPAELRSFNMPSLDKMDGS MPSEMESSRNDTKDDLGNLNV PDSSFPVAKKEATGPGFVPPPLA PVRGPLFPVDARGPFLRRGPPFP

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5271	35639	A	5312	141	2788	GLRVPLSPSSPRSLRSGPLRLP GADSGSGPKAVCSPPFIVAPTG RGYCGDHESSFGAMEEPGATP QPYLGLLLEELRRVVAALPEG MRPDSNLYGFPWELVICAADV GFFAVLFFLWRSFRSVRSRLYV GREKKLALMLSGLIEEKSKLLE KFSLVQKEYEGYEVESSLKDas FEKEATEAQSLEATCEKLNRSN SELEDEILCLEKELKEEKSKHSE QDELMADISKRIQSLEDESKSL KSQVAEAKMTFQIFPMNEERLK IAIKDALNENSQQLQESQKQLLQ EAEVWKEQVSELNKKQKVTfED SKVHAEQVLNDKESHIKTLTER LLKMKDWAAMLGEDITDDDN LELEMNSESENGAYLDNPPKG ALKKLIHAAKLNASLKTLEGER NQIYIQLSEVDKTKHEELTEHIKN LQTEQASLQSENTHFENENQKL QQKLVMTELYQENEMKLHR KLTVEENYRLEKEEKLSKVDEK ISHATEELETYRKRAKDLEEL ERTIHSYQGQIISHEKKAHDNW LAARNAERNLNDLRKENAHNR QKLTETELKFELLEKDPYALDV PNTAFGREHSPYGPSPLGWPPSS ETRAFLSPPTLLEGPLTSLPLP GGGGRGSRGPGNPLDHQITNER GESSCDRLTDPHRALSDTGFLS PPWDQDRRMMFPPPGQSYDPS ALPPQRQDRFCSNSGRLSGPAE
5272	35640	A	5313	217	447	FQRMSGL*GYSPPLGGQPAL*E CQGAADSAGG\RGLDSESLGR PAASGPNTALGWQAQPWS*Q AGPELPRAEFLQA
5273	35641	A	5314	3	287	TLRNRHRELRTCLSGPGLGLPT QVSVVAGGCCVCPSSSQSPVPR PPALSAAPWHSRAGCPPSGGL *PQRPLILWNQPLSNTLLEKELA PPPAH
5274	35642	A	5315	3	468	ALARSPAG*QSPDGDLCFRHR KGERRPAAPAGQCPAGRQRHV PAAGRDGKPGRAPGADR*AGPI LHLYHLPAPCGGGTPGDSNPRR APAQRSE*CTPPPPQ*RNNRKPS TRAGLLLP*HVQLSGGLTLCP GDRVS*WPQGVLAAPGPGPCT HL
5275	35643	B	5316	64	288	

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5276	35644	A	5317	73	265	NGRTSRCFSPGKH*EYCSGTFH PLQVVGKIYSNLDKIL*ASRAR WGLCSRKPGYWSCTQPPTSS
5277	35645	A	5318	125	461	
5278	35646	A	5319	298	593	LGVEVEPVTGGDAVIGASHDAF LQVNIESIVPEHSTRCKLLGKFI RIWIKYFRHLVHGGGSAPVSLV TGPVHGDSLLGPVAPEPPRVVE PARQVRAHAVVVAGPLRRGRG LGRHRLRARSG*GMPQSVRGA CGAQGHGPAGEDQRLPRERG PAGQVQQPGVVPGLQDPEGCL RVQDQ*PGLREQSPHRARDA*S ILSKFE*IFPTTCSGWNVPEQYS QCLPGEKHRDWPR*LHHLL*PA QLPPPVTSTGHPSAIEGLETPL RSPLTPGPPGKSIIPHPQSPDCD GTDCAAFPENIIRLSRKICKRG
5279	35647	A	5320	1124	1835	HSLHFPKFPSFLTLITLGLLM AVPPGLITTHQQRQAML*YKPL ARLLEPLISFPSWKSILKEITSQC SICYSTTPQRLFRPPFPPTHQTR GFAPPR/HWQIDITHMPQVRKL KYLLVLVDTGSKKATVVISSLL SDIIPRFGGLPTSIQSDNGPAFISQI TQAISLALGIQRTHGKLLKTHLT NLSHQLKKDWTILLPLSLRIQ ACPRNATGLHSDG/VGPKLLPG SPFQLHHTWDSP
5280	35648	A	5321	1	1758	
5281	35649	A	5322	1	1967	
5282	35650	A	5323	76	1908	

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5283	35651	A	5324	524	2144	QSDLSASQHGFLPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSC LRAAAAAALIVLEALKITNYAQ LTLYSSHNFQNLFSSSHLLTHILF CSPGSFSCTHSLLSLPQLPIVPGP DFSPASHILDTPDPHDCISLIH LTFTPFPHISFFPAPHPDHA*FIN GSSTRPNRHTPAKAGYAIVQVT SPPLKTSHFLSIVEIYPQGNFNS VFHLLFYYSGGIIQAPLLSLHIKL RDLPPPRTGKSALLNMPVRKLL KYLLVLVDGTGSKKATVVISSLL SDIIPRFGLPSTSIQSDNGPAFISQI TQAISLALGIQRTHGLLKTHLT NLSHQLKKDWTILLPLSLLRIQ ACPRNATGLHSDGEARSSFAQH HFNFITHGTVPDVFVPILQLLNE DFEDPCLGYLPSPEISICLEPTSW SKDRSCSSGEEGSAGQVTGDL HKAQTPELDQPASLNCPDL
5284	35652	A	5325	1	420	RTRGGEKE*EEKQRSRR*RIK*E EEEK*RRSRGAGDKG*NERRRR NRGEPVEKEEDRRRKRQWRR GEEKRRRGRNCGGGGGEEKE DGRRRRLPCFLLLPSLLVSLW LVSFLPCVFGFFGAPAVVFARF RGLRAFCRF
5285	35653	A	5326	2	467	
5286	35654	A	5327	269	777	
5287	35655	A	5328	2443	2627	VGFFFFFWWGERGTGSYSVTQ ARVQ*YDLGSLQLLPPSFKGFS CLSLPGSWYYRHGPRLG
5288	35656	A	5329	57	394	
5289	35657	A	5330	33	311	HNTLPKTKPWFQEPGDEEPQQE EPPTESRDPAPRLPRSP*SADPP WRSQRPQGLTRPPPEPLRPHGS PPAHLSLFCQRSCPGPQERPHPS TM
5290	35658	A	5331	226	406	
5291	35659	B	5332	51	90	
5292	35660	A	5333	1	348	PPSQRV*GWHEMRQGGGRQHAQ PVLSQQGLTAGHCHHQHCRRP LACDVRPVVYEKVS RDHGLVS GQHN/PAPESQGQSTSPRHTGR KQARAGGEKKVTSDPANTAQH NPNTGSRGRP
5293	35661	A	5334	109	380	

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5294	35662	A	5335	448	724	WPSRSALAAGGRTAPTPrSRAG PPAR*RAGRESARGTS*GIRPRS QPARRPCPPAPVGRGLPPGPAP PPRAAPREPPRCRAAAHTSRP AGS
5295	35663	B	5336	1	1554	
5296	35664	B	5337	99	366	
5297	35665	A	5338	1	714	
5298	35666	C	5339	391	689	
5299	35667	A	5340	2	614	
5300	35668	A	5341	2	461	
5301	35669	B	5342	45	1148	
5302	35670	A	5343	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPVSNPYTLTSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQLTWTVF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5303	35671	A	5344	1	1035	MGQVWALVRSTLELFTDDEE EGEYDEVTEEVTEQVYLPKA KVAQEEVHPYPSAPPHYFEE KEWPDPPDLSFLEDTGRKVVAP VTEQHLELLSVLFRQEFSLRD ERDDAVEQLRGVCIRAWEKITS GGEQYPSFSAVKQGPKELYADF IAWNLLRQESLKKVISDSAAQD IVLQLLAFGNVNLDCQAALRPI RGKAHLVDYIKACDGIGAKQD SERFAFTIPVVNNLQPAKHFFHY FTDGSSNGKASYSKSGKQNNQ PIWILSRHLKPYHEPDAKEEIPG G/CP RTPWLQPCRD*C*GGP*/P VTSNTR*TQPPTWGQIKLSQM VEENLRKAGQLVTMTVYWN
5304	35672	A	5345	1566	1767	KGGWSQRHSQGACYTCRKS GH WAKECPQPGIPPKRPICVGP H* KSDCSTHLAANPRAPGT LAQGS L
5305	35673	B	5346	1	3429	
5306	35674	A	5347	1	1776	
5307	35675	A	5348	1	933	

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5308	35676	A	5349	1	1743	MGKVVAVVRSTLELFHTDDEE EGEYNEVTEEITEQVYLPAAKAK AVKEREQRGNITATFEPFPKLL KEFKQAINQYGPESHFVMGLL KNVAVSSQMIPTDWDALTQAC LTPAQFLQFKTWWAHEASIQ ACNAQAQPQINITTGQLLGVG WAGLDAQVVMQDDAIEQLRG VCIRAWEKIPLCGEQYASFSAIK QGPKEPYVDFIAWLQESLKKVI ADSAAQDIVLQLSAFDNANPDC QAAL*PIRGNHLVDYIKACDG IRGNMHKATLLVQAMAGLRVD KGNPLLPGACFNCCKHGHTKQ ERRKKSVSQAARWGKRKTADP EICPKCKKGGYWANQCHSKFD KDGTLISGNAMRAEQDCEWFT FTIPAVNNLQPAKHFRFTDVS SNGKASYSGSKGGQARVQLFE NASVRATNSDLPQSSLWCRRT SVSVAVLVSATIPISRVQGPSQV LGQGEKQTNQNVVNPYTLLS QIPEEAKWFTALDLKDAFFCIPL HSDSQFLFAFEDLTDHTSQLTW TILPQGFDRDSPHLFGQALADL GHFSSPGTLVLQYVDDLLLAT SEASCQATLDLFLFLAN
5309	35677	A	5350	1	1085	
5310	35678	A	5351	1	3105	
5311	35679	A	5352	1	5172	
5312	35680	A	5353	41	324	
5313	35681	A	5354	18	270	KLSQVCIDLL*IREGERDMYPG WAKFPSPYSLKGT*PIAQGVW SFGDFFYC/IPSTLPTPKSWRLFE SPFPESLTPVSLVWWPC
5314	35682	A	5355	80	384	SNNRTEGAWGKCQLMSS/PLTE PQVTLTIDSQEIDFLDGTGA VLSCEQLSSRSVTI*GILGQPV TRYFSHLLSCNWETLLFSHAFL VMPESTPLLGR
5315	35683	C	5356	99	317	
5316	35684	A	5357	388	476	KVCPRPCRTSM/LPIRII*KLPQV CLDLL*IEGEGDMYPG*AKFPS PYCLKGT*PGTIAGSWARGVSA AASPSYSSPSY

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5317	35685	A	5358	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPAVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVFTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
5318	35686	A	5359	1	909	
5319	35687	A	5360	153	436	CFCCCVEGNKPRNLQRTTKTPR LSVMSPSSCRGRGIWPNPGTC/R PSPSLI*SRSRQTWRTTPCQQG NKTGQRMNLTN*QEQAEGG* *QTPLS
5320	35688	A	5361	1	1632	
5321	35689	C	5362	1	675	
5322	35690	A	5363	604	1047	SNNRTDNPTSVAYLSKETDVV AKGWPHCLWVVAVAILVLEA IKIIQGKDFTVWTS HDVNGILG AKGNSWLSDKRLRLRYQALLLE GPVLQIHTCVALNPAIFLPEDGE PIKHDYQQIVAQTYVT*EDLLE VPLANPDNLNLYTNGSSFV
5323	35691	A	5364	749	1002	QLKKGTSNLLVSKPSPVWIPTG TLTQIMGTGVANIC*PVF*KD*G ELGKMNYAMMSTITQGKEENP AFLKWLWEALRKYTPLSP
5324	35692	B	5365	114	2309	
5325	35693	A	5366	413	1157	
5326	35694	A	5367	105	478	YGHCCYDHRICCFPPATEQKVC PCAAQG*PL*LRGDDPEMSVYI *QLPLYSSDLLSAANEVQILAF FQGDVSFFPVATTTDTLSVTFN FPFNYQGVNDFDFDKQLHSS FDFCFGRVFSNFE
5327	35695	A	5368	531	1087	RLQPPGAPVEDITRPVSAKPRD ADRNSTGCYLV*LQHQRQTES GRQLSGL*GPCNGVH/ASLYR TSAMFAERFGSYSRRSTTAGIPS LLRLKSTIRRSRDRSRKAQRKR CGQVMPQHRRSIRPLLQIPITPSL NRNLHRSRPHRSRNRWSRLNRR LKHHLRRSQNRSRSWKKKLHR RVKPMCLCNWVR

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5328	35696	A	5369	544	1381	VNPALQVLVVAITPPPSLPSPSCI RVLTRVSNIAIAAKPLCLAVCAV VEGGRIRALVAAWAGVGTG GPAGLIACGPVSPSVIRGQFRHA GISFFLYAIGGEMVPAVRRQNH TPA*HKRFAKAFQLAHPNAV AEHFAGGDRHLFSLHNQGCVV KHHVRRDITFIGYRFTQFA
5329	35697	A	5370	81	863	AYGNPVEIAGGARQAGVNFTG VFRPRFSRRWRRISGETCKLWW RRWRSASINQTFASWSTLIF RAISNPIIRKPDAPGVMACPRKR CCFTIRLIWRGCAVVWKRSE GQLQDIERHKLNAMGAFAEAQ TCRRLVLLNYF/GRRASGAVRE LRYLPRSAETVRRFNRCSDCPF HHWSCSAVWDGLCGGSDSCC GVSRARLFASPVNLPITGEIPER GFHPFCGRTTENGKNHPRNLFI WRSNCSVLPVKVMSLCSSTPCP
5330	35698	B	5371	12	273	
5331	35699	A	5373	145	336	SEEEEEEEEEEEEEEEEEEEEE E*EEGESAIICAKVCISVFP NELNMAITPNTIPKLNHW
5332	35700	A	5374	294	657	VAPGDRHAFHGGGSGLSPELTL PQTQCCAQATVQGLEGTRSW QSGTSSLSPWSHTSLACPQKEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEAKTQ*KSG QKI*TDSPQKK
5333	35701	A	5375	2	588	SRPGITGSTISYGDPPGHGAGPPG ADLGPARSLKPERAAGAQLAA GEARQSGDPLPGGPGHSLGTA PC*VDKGGWHPVSTVHHQRQP QPGGLRAPGTALLAGTQPSHPA AGPWEPQPQRGVRVLGGRD *VGGG*GQHNKALWGPR*PHT EQKPDRKLSRIPLRAAGGEKRG CGCDRAGCLVLGPPQLPAQGL
5334	35702	A	5376	1	445	SLSHRAGGGGGVGGGAVCLFS PPRTKRESAPESPSRVLGHS S*GAPSTRGSVSRIITSGG SNGLTCHRNQAGTGPSALRS P*CLSRANPPGSKRSAGPV RT*PCRLSGSAGITQ*DGN*KAG PRVPEAPERGCATC

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5335	35703	A	5377	3	313	QNDEVAFRKLLKLIIEDVQKSY LTNFHGMNLTHDKMCSMVKK WQTVIEAHVDVKTNGYLLCL FCVGFTKKCNNQIWKTSLF*QQ SNMEDFFVLTGTGIIHSHLHEPFLV VTDYDQ
5336	35704	A	5378	45	764	TSFLTGGGKKGSKKKVVDPFS KKD/WL*YVKHRAMFNIRNIGK DVGSPRTQGTKIAS\DKLG\RV FE\VSLADLQNDEVAFRKFKLIT \EDVQGK\NCLTNFHGMMDLTP* QKCCSMVKKM/WQTM*SSPL MVKTTDGLLASVCSCVGFTHK \RNNQIRKTSYAQHQVVRQIRK KMMEIMTREVQTNDLKEVVNK LIPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGS
5337	35705	A	5379	3	501	SSARFVSSSSSGGYGGGYGGVL TASDGLLAGNEKLTMQNLNDR LASYLKVRALAAKILSDMRS QYEVMAEQNRKDAAEWFTSRT EELNREVAGHTEQLQMSRSEV TDLRRTLQGLEIELQSQLSMKA ALEDTLAET/EGDVRADSERQN QEYQRLMDIKSRLEQE
5338	35706	A	5380	1	716	AQLKVKFWYWPEAGAGGLRR FKHY\YTPFKDCRDKILGATIKN SRIVLQIDNAGLAADDFTKFE TEQALRMSV*ADITGLRRVLDE LTLARTDLEMQIEGLKEELAYL KKNHEEEISTLRGQVGGQVSVE VDSAPGTDLAKILSDMRSQYEV MAEQNRKDAAEWFTSRTEELT REVAGHTEQLQMSRSEVTDLR RTLQGLEIELQSQLSRLWGFCF PLEGVFWVEGWEGRDPYPRLF
5339	35707	A	5381	3	832	
5340	35708	B	5382	141	1067	

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5341	35709	A	5383	3	1316	GVAPSVLRLAMTSYSYRQSSAT SSFGGLGGGSVRFGPGVAFRAP SIHGGSGGRGVS SVSSARFVSSSS SGAYGGGYGGVLTASDGLLAG NEKLTMQNLNDRLASYL DKVR ALEAANGELEV KIRDWYQKQG PGPSRDYSHYYTTIQELRDKIL GATIENSRIVLQIDNARLAADDF RTKFETE QALRMSVEADINGFR RVLE*S*TLAQEPNLEDARIEG LKEELAYLKKNHEEEISTLKGP KCEAQ\SV EVD\SA\PGTRSSPK ILSDMRS\QYEVMAEQ\NRKD\A EA\WFT\SR\TERIETREVAWPHR SSFQMSQAPRLDLAAATPQGS *DLSCQS QLEPLKAALGKTPLA ENRKA\RFGNPQLAPYPQALDS AVI*KPQLG/DIVAKLDSSTGRI QEYQ\RLMDIKFARLEQEIAHP NRSLA/LEGQEDHYNN\LFASK
5342	35710	A	5384	23	279	GCLRGLSLERCGTLC KISLHEISG PESRVQ\QPLSSREEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEERKK ECSKAQCKHFPLSEVL
5343	35711	A	5385	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEGGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEE EEEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKKKKKK KKKKKKKKKKKKKKKKKKKK RKKKKKEEEEKVVEEDEFIWF LGNSLYFPSFSHFAWSQIPSRED EGERRLRVNSMIMDFTSNTNH
5344	35712	A	5386	3	259	
5345	35713	A	5387	53	387	LEEEKEEEEKEEEEKEEEEE KE/DEEGEEGEGGEGEGEGEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEMIVLKIIIVAKQLF
5346	35714	B	5388	1	1446	
5347	35715	A	5389	3	122	
5348	35716	A	5390	239	432	CLWLFQEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
5349	35717	B	5391	1	1269	
5350	35718	B	5392	44	244	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5351	35719	A	5393	1	626	EEGEVEEEGEEEEEEEGEGEE EEEEEGEGEGEGEGEGEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEQEEEEEEEEEEEE EE\EEAAAAAASRDSHTSLEL TYWPPCPALRDTLVSNCSLSSL CTSGDSFHW*ETTIPAMSSCSH QHSLHQLGIIPRQILMRMASLM RRIC\EDHPATAEQ**HV*GPPD
5352	35720	A	5394	2	506	
5353	35721	A	5395	1	480	
5354	35722	A	5396	1	492	
5355	35723	A	5397	1	870	
5356	35724	A	5398	111	407	
5357	35725	A	5399	1	651	
5358	35726	B	5400	1	2427	
5359	35727	A	5401	571	966	SPFTNSRLTIFISFSECGQIAEIYI LSQPFMVRIMATEPPIINLQPGN FTLDIVSRDHTTAL*PGRQEQNS VSKKKEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEKKKK
5360	35728	A	5402	1	1674	
5361	35729	A	5403	1	306	
5362	35730	A	5404	2	431	
5363	35731	A	5405	1	585	
5364	35732	A	5406	1	708	
5365	35733	A	5407	3	595	
5366	35734	A	5408	287	659	
5367	35735	A	5409	1	633	
5368	35736	A	5411	3	634	
5369	35737	A	5412	344	481	
5370	35738	A	5413	1	525	
5371	35739	A	5414	1	501	
5372	35740	A	5415	1	461	
5373	35741	A	5416	302	567	MLCCLEISSTRYPKSSLSSSKFH KSLGQGQNAASLFAKT*RESPL LQFPASSSPSETTSAWTLFLFISL SAFLTKAFNKSLGGSKLSH
5374	35742	A	5417	251	844	NLGRGSQTSILDFCAPAGLIPCG SCQGLGLPHSEATARA VYWPL SAMAGVAGTQGTKSLDSSLFA KT*QESPLLRFP TSSSSPSETTSA FILLFISLSEFLSKPFNKSLGGSK LSHIFVSSSEPSKLSQPLHMQ ARISFTSGHTDDSTVLFVLLK LPLPVPSQAFSLKPGSIVMLLSS WSDNFNIPSISDSDA
5375	35743	A	5418	1	1113	
5376	35744	A	5421	1	337	

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5377	35745	A	5422	2	680	
5378	35746	A	5423	144	373	
5379	35747	A	5424	1	597	
5380	35748	A	5425	3	3319	
5381	35749	A	5426	1	612	
5382	35750	C	5427	46	168	
5383	35751	A	5428	1	663	
5384	35752	A	5429	10	417	IAIMNDTVAIRTRKFMTNRLLERKQMVIDVLHPGKATVPKTEILEKLAQMYKTTDPVIFVFGFRTHCGGGKTTGFGMIYDSLDAEKNEPKHRLARHGLYEKKKTS*KQRQERTNRMKKVRGTAKANVVAG*KPNE
5385	35753	A	5430	67	263	GKTTG\FGMIYDCLDYAKKNEPKHRRARHGLYEKKKTSRKQRKERKNRMKKVRGTAKANVGA GKK
5386	35754	A	5431	2	537	TPGSTTTTKFPTASTSEDRSPIMND\TVTIPH*EKFMTQPTYFRGNQMV\NDVLSPPGKGDQCPKHKRFGKKLAQNVPRPTPD\VIFVFWIQNFIFGGGKTT\GF\GMIYGFPGIYAKEKMNPDRHLCCKDMGLVLRKEKGPSRKANGKGTARNRIGRKVPGGTGKGPNVGCWAKRRNEVSSS

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5387	35755	A	5432	1	2195	ARGLSMGH*FP/PHFQCALA*M PAPGRGPPPLPP/CPDAPPACA ATMERPEAGLRVAPRSPVQPGC TSVLPVAKRFNARILWLKRPQR QLWSLWRAQATVSLGGFHVM LSLQVHRINARVKEAWQLPPRF QMMYQKAWVLRQKPAAAVEP SQRNSPRAMLGGNVGLPPPRV STRALPSGAVGRGLPPSRPKND TATGSLHPELGKAADIQFHPVR AATGASPCKSIGTELPKALGAH VLLQCALDVGHGVEGELWSFK TRQPSDFSIFSPFPFYSTKPPLS SWPIPNEPLGTTPRRGRGGAEG LLTSQCSHILNGLCFTGGINSNE CENVSRKKKMSEEFANTMDS LVDMPFATVDIQDDCGIFFDVW KLRVNCQEILANRHPGRAMRK VVLTKTSWEGESLAVGKLPLK RLVSLDCQLRCLQCEGILIRQ HVVWLERTTGHWHPRSSQSCR LNTTSTALEHCNAFIYNTVCSH KLKDHSHDNGKSSGFLNPVAA PHSCIVMGHLTLLITTSYYTPLT KPDTPDLKKEGLISQDSSSLEV LLHTDPLGKRGTPDPRVDDDSL GKFPVTNSQARKRILEPDDFLD DLDEYCEDAPKHRGKGCOSA HKELDASNLEDQDKPYACDIC GKRYKNRPGLSYHYAHSHLAE EGEDKEDSQPTPVSRSEEQK SKKGPDPGFALPNNYCNFCLGNS
5388	35756	A	5433	1	580	FSPLIHLILSGHSTCFREHRVGG KVTQQDPKAEFFLVQNKMK SLPCLLLSTQTRQPSDFSIFSPF PPFYSTKPPLSSWPVLNELLGTP PRRGGGRAEG/PPHFPVG/GPGR GAPSPRRGGWPGGGLTPQPPS RTGRLAGRGADPPTSLPDGAA GRAGG*PHHLPPGRGGWPGRG APHFPVGVAGQRRFLIC
5389	35757	A	5434	405	685	KVSHVYFYPHRPRNHPISQFFPH PSRLSIPQNRHCHHGPS/RNEPL GTPPR/PGSWPGRGAPHFPETFN HGRRWKGSRHVFTWPEQERE WGSATHF
5390	35758	A	5435	1	654	
5391	35759	A	5436	1	426	
5392	35760	A	5437	1	548	
5393	35761	A	5438	1	459	
5394	35762	A	5439	1	346	

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5395	35763	A	5440	1	1248	
5396	35764	A	5441	1	1257	
5397	35765	A	5442	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPTGAIEVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIGDGTYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
5398	35766	A	5443	1007	1719	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLLSNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKHLFKENYKPLLKEIK EDTNKWKNIPCSWV\GRINIVK MAILPKVIYRFNAVPIKLPMTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLP
5399	35767	B	5444	1	1020	

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5400	35768	A	5445	1	1576	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPPERQNHSL WKG*SQEPSGLAQWIPLPWS AS*DPLA*NSCCQHSLKSTWD AQACARKLRTLKGYRNCQLE
5401	35769	A	5446	1	984	
5402	35770	A	5447	1	1563	
5403	35771	A	5448	1	1449	
5404	35772	B	5449	1	1605	
5405	35773	B	5450	1	1569	
5406	35774	A	5451	1	690	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYNPLLNEIKEDTNE WKNIPCSWVGRINIVKMAILPK ATVTKIAWYWYQNRDIDQWN RTERSEIMPHIYNYLIFKKPEKN KQWGKDSLFDKWCSENWLAIC RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIGI GKDFMSKTPKAMATKAKIDK WDLIKL\FCTAKETTIRVNRQS TKWEISSL
5407	35775	A	5452	1	1919	

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5408	35776	A	5453	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILP DIDQW/NRTEPSEIMPHYNYLI FDKPEKNKQWGKDSLFHKWC WENWLA VCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDK WDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIKKSGNNRCWR GCGEIGTL
5409	35777	B	5454	1	810	
5410	35778	B	5455	1	1277	
5411	35779	B	5456	130	1701	
5412	35780	A	5457	1	1395	
5413	35781	A	5458	3	1646	
5414	35782	A	5459	1	759	
5415	35783	A	5460	2821	5781	
5416	35784	B	5461	1	2025	
5417	35785	A	5462	1	3663	
5418	35786	B	5463	1	2265	
5419	35787	A	5464	1	2241	
5420	35788	A	5465	1	2478	
5421	35789	A	5466	1	2067	
5422	35790	A	5467	1	2988	
5423	35791	B	5468	1	2061	
5424	35792	A	5469	1	2141	
5425	35793	A	5470	1	400	
5426	35794	A	5471	2	2507	
5427	35795	A	5472	1	768	
5428	35796	A	5473	1	1527	
5429	35797	A	5474	1	1293	
5430	35798	A	5475	1	1038	
5431	35799	A	5476	1	1572	
5432	35800	A	5477	1	1290	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5433	35801	A	5478	1	524	MSELPFRIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNISCSWVGRINIVKMAILPK/ VKHR/FSACLQSLGRSGTTGLE ALAM*PIWPQEVE*VKFPALPS GASSTKGGCVP*QIQVEERLLS WKL*QA*TSW\YQRQRSDSSL RERK*PKSIQRNVRLSYYP
5434	35802	A	5479	2	1547	
5435	35803	A	5480	1	2376	
5436	35804	A	5481	1	1824	
5437	35805	A	5482	1	1071	
5438	35806	B	5483	1	1839	
5439	35807	B	5484	1	1368	
5440	35808	A	5485	1	1884	
5441	35809	A	5486	1	1053	
5442	35810	B	5487	1	2532	
5443	35811	A	5488	1	2373	
5444	35812	A	5489	1	2361	
5445	35813	A	5490	1	2274	
5446	35814	A	5491	1	1686	MASPGPAPTASPKIHSELLTATR EAQRHHPVPRGQDLVTSEFSL SFCFSAAIFIFELLSNSEGVTDL RLWLCQPAPRCGEWTYNPLEQ CCDDGVILDLNQTRLCGSSCTF WPCFQHCCLESLSQSQNTVVR KVPGMKPDCKSSPITRICAQAG VQISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASQ RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA LIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDID QWNRTEPSEITPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LAICRKLKLDPFLTPYTKINSRW IKDLNVRPKTIKLEENLGITIQ DIGMSKDFMSKTPKAMATKDK IDKWDLIKLSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKKHMK KCSLSLAIREMQIKTTNQNHM RYHLTPGHG
5447	35815	A	5492	1	1872	

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5448	35816	A	5493	195	1494	PPGQHLQRRCLLRVSGFSENAK KGMLEVLARA\NRQEKKIKGIQS GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKALGYKISV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYGF NAIPIKLPMFTFFTELEKTTLKFI WNQKRARIAKSILSQDKAGGI TLPDFKLYYKATVTKTACNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTDTSLSIPAAPMVD SLIARVGVMARGNAITLPCGR DVKFTLEVLRGDSVEKTSRVW SGNERDQELLTEDALDDLIPSFL LTGQQTPAFGRRVSGVIEIADG SRRRKAAALTESDYRVLGGEL DDEQMAALSRLGNDY
5449	35817	A	5494	1	1845	
5450	35818	A	5495	1	2109	

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5451	35819	A	5496	1	2535	MKSGHPEKEQDNSDVQETREIT IRGLLCTALMRHSTGAIAIYLG VLSGSASLKLAVPLRCCEGDKD AGHPLETQTALCERGRGARSLV GNTIMTSQPVPNETIIVLPSNVIN FSQAEKPEPTNQGDLSLKKHLH AEIKVIGVNLIQNVLERGWGKC QEMIYVLGLDICRPFFVSRVSEE GRMGQRGEEDANSLDFPPASLL CLICQEQGVNGESCSPVGMYYH REIVPVYEVLSVITGLQIQVFSG KEADSVIKRSIGWGPFFKPRTK DKNHMIISIDAEKAFDKIQQHF MLKTLKSLGIDGYLKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSDQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWYQKRARITKSI LSQRNKAGDITLPDFKLYYKAT VNKTAWYWHQNRHIDQWNRT KPSEITLHIYNLFFDNPDKNKK WGKDSLFFNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKTLEENLGITIQDIGMG KYFMTKTPKAMATKAKIDKW DLIKLSFCTGKETIRVNRQPT
5452	35820	A	5497	3	2284	
5453	35821	A	5498	1	1245	
5454	35822	A	5499	1	1140	
5455	35823	A	5500	383	1185	
5456	35824	A	5501	1	3159	MLEVLAWAVRQEKEIKGIQLG KEEVKLSLFADNMTVYLENPIV SAQNLLKLISNFSKVSGYKVS GQKSQALLYTNNRQTESQIMSEL PFTIASKRIKYLGIHLTRDVKDL FKENYKPLLKEIKKDTNKWKNI PCSWVGRINIVKMAILPKDIIQE NFPNLARQANIQIQEIRKTPQRY SSRRATPRHIIVRFTKVEMKEK MLRAAREKASHHTYSKIDPILG SKPLLSKCKRTEIITNYLSDHSAI KLEFRIKNL

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5457	35825	A	5502	583	2515	MQKKPLTKFNNPSC*KLSIN*LI SNFSEVSGYKISVQKSQAFLYT NNR/QESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWVGRINI VKMAILPKAIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVGPNTIKTLEENLGITIQDI GTGKDFMSKTPKAMATKAKID KRDILKLSFCTAKETTIRVNR QPTKWEKIFTTYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEHIYAACKHMKKCS PSLAIREMQIKTTMRYHLTPVR MAIHKSENNSLAAGGGNRRT ANVVAHGAFANLLTLDKKTLQEI LVHYPDSERILMKKARVLLKQ KAKTAEATPPRKDLALLFPPE ETPKLFKTLLGGTGKASLARLL KLKREQAAQKKENSEGGEEEG KENEDKQKENEDKQKENEDKG KENEDKDKGREPEEKPLDRPEC TASPIAVEEEPHSVRRTVLPRGT SRQSLIISMAPSAEGGEEVLTIE
5458	35826	A	5503	1	2463	
5459	35827	B	5504	1	1221	
5460	35828	A	5505	1	4494	
5461	35829	A	5506	1	2825	MARTSYGQHFFPTLISMNIDSG RQNGGIPKLSTSYSLKPMNTLC YLVKRDLEGVLKLRILTWESSL DYPGGPSVITKVLIRQKEGQSQ RTRYDNGSRGWSDAIAVKRPQ AKECGWPLEAGKGKEWILRKE CIPANTLMLAQCPPTLRVGGSV CSAWRMIQNSDGERRKRNRQL QAVRLSKVIHDTFRNFPRFVHS RELSKGAEKSSSLKKGLEQVII WTKCRQCGESRCTKKVEERKV LHNTFISTSTTITTLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5462	35830	A	5508	1184	4791	TSMQKSSIKYWQTESSSTSKSLSTMIKWASSLGCKAGSVYANQ*M*SSI*TEPKTKTI*LSQ*MQKKPL/YKIQQPFMLKTLNKLALQNL LKLISNFSKVSGYKINVQKSQAFlyTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLKEIKEDTNKWKNIPCSWVGRINIVKMAILPQVIYRFNAIPIKLPMTFFTELEKTTFKFIWNQKRARIASILSQKNKAGGITLPDFKLYYKATVT
5463	35831	A	5509	516	2233	
5464	35832	B	5510	286	4131	
5465	35833	B	5511	1	4911	
5466	35834	A	5512	1080	3119	SSGLHPWDARLVQYTQINKCNPAYKQSQRQKPHDYLNRCRKKAFDKIQQPFMLQTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLEAFPLKTGTRQGCP LSLLLFNIVLEV LARAIQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNL LKLISNFSKVSGYKINVQKSQTFLYNNNRQTESQIMSELPFTIALKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDTNKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKLPM TFFTELEKTT LKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL YYKATVTKTAWYWYQNRDIDQWNRTEPSEIMPHIYNYLIFDKPEKNKQWGKDSLFNKWCWENWLAICRKLKLPFLTRYTKINSRWIKDLNVRPKTIKTLEENLGITIQDIGVGKDFMSKTPKAMA AKA KIDKWDLIKLSFCTAKETTIRVNRQPTTWEKIFATYSSDKGLISR IYNELQQIYKKKTNNPIKKWAKDMNRHFSKEDIYAAKKHMKK\CSSSLAIR\EMQIKTTMRYHLTPVRMAIHKSGNNRIRRHQPRSAMFFCCCPGGEGSGLQWELLAAAWTVLPYPCPAATVGRFLKQAQTADHSFLGHVWRVPSSRSWTDKEILSLVVNRQNQE VVQLIGGLCGTHTISPTQHPATG

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5467	35835	A	5513	2494	4549	LQTIHQGYNSKQHGTTGKTAWYWYQNRDIDQWNRTEPSEITPHIYNYLIFDKPDKNKKWGKDSL FNKWCWENWL VICIKLKLDPFLTPYTKINSRWIKDLNVRPKTIKTIEENLGNTIQDIGMGKDFMSETLKARATKAKIDKWDLIKLKSFCTAKETTIRVNRQPTKWEKIFAIYSSDKGLPRIYKELKQIYKKKTNSPIKKWVKDMNRHFSKEDIYAAKHKMKCSSLAIEMQIKTAMRYHLTPVRMAI
5468	35836	A	5514	1	5582	MGDFNTPLSTLDRSTRQKVNKDTQELNSALHQADLIDYQTLHPKSTEYTFFSAPHHTYSKIDHILGSKALLSKCKRTQITNYLSDHSAIKLELRIKNLTQNHSTTWKLNLLLNDYWVYNEMKAEIKMFFETNENEDTTYQNLWDAFKAVCRGKFIALNAHKRKQERSKIDTLTSQLELEKQEQTTHSKASRRQKITKIRAELEIETQKTLQKINESRSWFFERINKIDRPLARLIKKKREKNQIDTIKNDK
5469	35837	A	5515	3371	5375	TDTSQKKTFMQPKKHKMKCSPSLAIEMQIKTTMRYHLTPVRMAIIKKSGNNRSWYFEKINKIDRLARLIKKKREKNQIDAIKNDKG DITDPTEIQTITREYYKHLNANKLENLEEMDKFLDTYNLPRLKQEEVESLNRPIRGSEIVAIINSLPTKKSPGPDGFTAIFYHRYKEELVPLLLKLFQSIEKEVILPNSFYEASIIIPKPDRDTAKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQVG

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5470	35838	A	5516	314	2695	GSACRDPDPDPLRLVGGGAAA PPCSSVSPSAWRQSRPREYYEG GRGLHAPDRETALGLGIATSER MLGICRGRRKFLAASLSLLCIPA ITWIYLFSGSFEDGKPVSLSPLE SQAHSPTYTASSQRERESLEVR MREVEEENRALRRQLSLAQGR APSHRRGNHSKTYSMEEGTGD SENLRAGIVAGNSSECGQQPVV EKC\RRNPLHFHLLIADSIAEQILA TLFQTMVPAVRVDFYNADEL KSEVSWIPNKHYSGIYGLMKLV LTKTLPANLERVIVLDTDITFAT DIAELWAVFHKFKGQQVLGLV ENQSDWYLGNLWKNHRPWPA LGRGYNTGVILLLLDKLRKMK WEQMWRLTAERELMGMLSTS LADQDIFNAVIKQNPFLVYQLP CFWNVQLSDHTRSEQCYRDVS DLKVIHWNSPKKLRVKNKHVE FFRNLYLTFLEYDGNLLRRELF GCPSEADVNSENLQKQLSELDE DDLCEYFRRRERFTVHRTHLYFL HYEYEPAADSTDVTLVAQLSM DRLQMLEAICKHWEGPISLALY LSDAEAQQFLRYAQQSEVLMS RHNVGYHIVYKEGQFYVNNLL RNVAMKHISTPYMFLSDIDFLP MYGLYEYLRKSVIQLDLANTK KAMIVPAFETLRYRLSFPKSKA ELLSMLDMGTLFTFRYHVWTK GHAPTNTFAKWRTATTPYRVIEW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5471	35839	A	5517	3	2079	GKPVSLSPLESQAHSPTYTASS QRERESLEVLRMREVEEENRALR RQLSLAQGRAPSHRRGNHST YSMEEGTGDSENLRAGIVAGNS SECGQQPVVEK\RRNPLHFHLI ADSI AEQILATLFQTMVPAVR VDFYNAD ELKSEVSWIPNKHYS GIYGLMKLVLT KTLPANL ERVI VLDT DITFATDIAELWAVFHKF KGQQVLGLVENQSDWYLGNL WKNHRPWPALGRGYNTGVILL LLDKLRKMKWEQMWR LTAER ELMGM LSTSLADQDIFNAVIKQ NPFLVYQLPCFWNVQLSDHTRS EQCYRDVSDLKVIHWNSPKKL RVKNKHVEFFRNLYLTFLEYD GNLLRRELFGCPSEADVNS ENL QKQLSELDEDDLCYEFRRERFT VHRTHLYFLHYEYEPAADSTD VTLVAQLSMDRLQMLEAICKH WEGPISLALYLSDAEAQQFLRY AQGSEVLMSRHN VGYHIVYKE GQFY PVNLLRN VAMKHISTPY MFLSDIDFLPMYGLYEYLRKSV IQDLANTKKAMIVPAFETLRY RLSFPKSKAELLSMLDMGT LFT FRYHVWTKGHAPT NF AKWRT ATTPYRVEWEADFE PYVVVRR DCPEYDRRFVGF GWNKVAHIM ELDVQEYEFIVLPNAYMIHMPH APSF DITKFRSNKQYRICL KTLK EEFQQDMSRRYGFAALKYLTA
5472	35840	A	5518	403	2757	
5473	35841	B	5519	128	353	
5474	35842	A	5520	2	333	
5475	35843	B	5521	25	1359	
5476	35844	B	5522	1	1113	
5477	35845	A	5523	1	2526	
5478	35846	A	5524	3	555	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5479	35847	A	5525	1	1710	MSQGTTPWGPTPAGTTPSEVH RPFPPVPVPVPETSERSFVVRG VCGQAKSGLRRGAARLAPAA LFTRQQTRELIHSACVSISVNTM HGLSVAINSRRCTYYRKYVIDF SKSEIIGIPISKNDLTVGTTVTQ LQNLNTVGIIGSRGGRGQVAAL NCDRQGHLLWLFTRVTVHWRM GNDRTFWGLLDTVSELMFIPGN PKHHCGPPVKVGAYGVTFGLV HWCAGACQDTPCKMKDKLLHL APPTTKKKAQYVVGLLGFWRPI YRVTTQKAASFEGWPEQDKALP QVQAAVQPALLFGPYDSADPM VLEASVADRDVWVSLWQAP/IS HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECPI
5480	35848	A	5526	1	438	
5481	35849	A	5527	1	612	
5482	35850	A	5528	2	736	EKCAMTALSSKLISQQKAFFAK MVVDVMMMLDLDLLQLKMIGI KKVQGGAELEDSQLVAGVAFKK TFSYAGFEMQPKKYHNPKIAL NVELELKAEKDNAEIRVHTVED YQAIVDAEWNILYDKLEKIH SGAKVVL SKLPIGDVATQYFA DRDMFCAGRVPEEDLKRTMM ACGGSIQTSVNALSADVLGRQC VFEETQIGGERYNFFTGC PKAK TCTFILRGGAEQFMEETERSLH DAIMIVRRA
5483	35851	A	5529	3	474	
5484	35852	A	5530	374	968	
5485	35853	A	5531	1	568	
5486	35854	A	5532	1	2136	
5487	35855	A	5533	1	240	
5488	35856	A	5534	248	1034	
5489	35857	A	5535	1	1602	
5490	35858	A	5536	120	340	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5491	35859	A	5537	2	408	DEDDDDDDDEEDDDDEDDDDDF DDEEAEEKAPVKKSIRDTPA\K NAQKSNQNGRDSKP\STPRSK GQESFKKQEKTPKTPK\GPSSVE DIKAKMQASIEKGGSLPKVEAK FINYVKDCF\RM TDQEAI\QDLW QWRKSL
5492	35860	A	5538	194	1027	WSFISIHLLSYLSACHHLMEDS/ MDMGMRPLRPQNYLFSCELKA NKDYHFKVDNNEHEHQLPLTTI NLGAGAMDELDIVEAEAMNYE GSPKIVILATLKMSVQPTVSLG G\FEITPPVVLRLKCGSGPVHIS GQHLVAVEEDAEESEDEEEDV KLLSISGKRSAPGGGSKVPQKK VKLAADEDDDDDEEDDDDED DDDDDFDDEEAEEKAPVKKSIR DTPAKNAQKSNQNGKDSKPSS TPRSKGQESFKKQKTPKTPKG PSSVEDIKAKMQASIEKAH
5493	35861	C	5539	212	367	
5494	35862	A	5540	14	1515	
5495	35863	A	5541	1	540	
5496	35864	A	5542	1	1881	MDAALDDLIDTLGGPEETEEEN TTYTGPEVSDPMSSTYIEELGK REVTIPPKYRELLAKPIGPDDAI DALSSDFTCGSP*LYPSQVFHLL DLLPFSPGYQPRLLQHHLA/AVP FKVAGSGGADCILHMEVRDTA SDTGAGAAALDSSVFSVGLDGF SLHSDRSKSSSSSMSSDSLRL GFSSSGSGNSGFPSLSVAGFNLYS DGIVSSSSPHFSSFSSLAFASSTS LIERRSSSGSACRVPSEADRASS
5497	35865	A	5543	1	930	
5498	35866	A	5544	1	183	
5499	35867	A	5545	1	555	
5500	35868	A	5546	162	499	FPGSGNMAKDAGLIEANGELK VFIDQNLSPGKGVVSLVAVHPS TVNPLGKQLLPKTFGQSNVNIA QQVVIGTPQRPAASNTL/VWVG SPHTPSTHFASQ\NQPSDSSPW\S AGKR
5501	35869	A	5547	2	451	LVAEFSAADNHILPNESAYDQK NIRRRVYDALNVLAMNIIISKE KKEIKWIGLPTNSAQECQNLEV ERQRRLERIKQKQSQLQELILQ QIAFKNLVQRNR\HAEQQASRP PPNSVIHLPFIIVNTSKKTVIDC SISNDKFEYLFNFDNT
5502	35870	A	5548	37	162	

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5503	35871	A	5549	205	616	RKLHGSQSSITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADAQVRRAVNNYDIIVMSNSF NGQSEHQVWIGGQFTFIKFPIN SVSIRCRARQEGIMSSPGQVVG
5504	35872	B	5550	1	1407	
5505	35873	A	5551	3	416	MLPARMCCGIVSG*QFHTGNSY DHDYEFELGTRS*A*LKLLFS*T LPD*QLPAGSGEGPYHLEGQLS YCHRGGEKALAALLSSPTSKTR SPSEPDPQEDEQKLRFCRHL GQQRSPVEIRLQHVAIAYQTH HAYD
5506	35874	A	5552	1988	2137	LVITTLPLACGTAK*E*VNVTS FGSRPICSTSPVLFSG*GPVKEF DT
5507	35875	B	5553	1	561	
5508	35876	A	5554	1	492	
5509	35877	A	5555	3	1055	
5510	35878	A	5556	1	634	
5511	35879	A	5557	1	723	
5512	35880	A	5558	1	384	
5513	35881	A	5559	1	792	
5514	35882	A	5560	3	1607	HCTRMSVKWTSVILLIQLSFCFS SGNCGKVLVWAAEYSHWMNI KTILDELIQRGHEVTVLASSASI LFDPNSSALKIEIYPTSLTKTEL ENFIMQQIKRWSDLPKDTFWLY FSQVQEIMSIFGDITRKFCCKDVV SNKKFMKKVQESRFDVIFADAI FPCSELLAELFNIPFVYLSFSFG YTFEKHSGGFIFPPSYVPVVMSE LTDQMTFMERVKNMIYVLYFD FWFEIFDMKKWDQFYSEVLGR PTTLSETMGKADVWLIRNSWN FQFPHLLPNVDFVGGHLCKPA KLPKEMEDFVQSSGENGVVV FSLGSMVSNMTEERANVIASAL AQIPQKVLWRFDGD\KPDTLGL NTRLKYKWI PQN\DLLGHPKTRA FITHGGANGIYEAIYHGIPMVG PLFADQPDNIAHMKARGAAVR VDFNTMSSTDLLNALKRVINDP SYKENVMKLSRIQHDQPVKPL DRAVFWIEFVMRHKGAKHLRV AAHDLTWFYHSLDVIGFLLV CVATVIFIVTKCCLFCFWKFAR KAKKGKND
5515	35883	A	5561	2	1600	

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5516	35884	A	5562	2	1624	AATGKQALHCIRMSMKWTSAL LLIQLSCYFSSGSCGKVLVWPT EFSHWMNIKTILDELVQRGHEV TVLASSASISFDPNSPSTLKFV YPVSLTKTEFEDIKQLVKRWA ELPKDTFWSYFSQVQEIMWTFN DILRKFKCDIVSNKKLMKKLQE SRFDVVLADAVFPFGELLAELL KIPFVYRPRFSPGYAIEKHSGL LFPPSYVPVMSSELSQMTFIE RVKNMIYVLYFEFWQIFDMK KWDQFYSEVLGRPTTLSETMA KADIWLIRNYWDFQFPHLLPN VEFVGGLHCKPAKPLPKEMEE FVQSSGENGVVVSLSGSMVSNT SEERANVIASALAKIPQKVLWR FDGNKPDTLGLNTRLKWIPO NDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVPLLADQPDNI AHMKAKGAAVSLDFHTMSSTD LLNALKTVINDPLYKENAMKLS RIHHDQPVKPLDRAVFWIEFVM RHKGAKHLRVAHDLTWFAQY HSLDVTGFLACVATVFIITKC LFCVWKVFVRTGKKGKRD
5517	35885	A	5563	1	225	
5518	35886	A	5564	1	3210	
5519	35887	A	5565	1	835	
5520	35888	A	5566	222	477	HPRCLSPKGILKYLTKKYLKKN NLRDWLRVVANSKESYELRYF QINQDEEEEEDED*ISFIWKILYE FLNKTWDPKKKKTKKKKK
5521	35889	A	5567	1	778	MAAAAAAGDSDSWDADAFS VEDPVRKVGGGGTAGGDRWG GEDEDEDVKNWDDDDDEKK EEAEVKPEVKISEKKKIAEKIKE KERQQKKRQEEIKRLEPEEP KVLTPEEQLADKLRKKLQEE DLELAKETFGVNNAVYGIDAM NPSSRDDFTEFGKLLKDINTQYE ESLYYARFLEVLVRDVCISLEID DLKKITNSLTVLCSEKQKQEKQ SKAKKKKKGVVPGGGLKATM KDDLADYGGYDGGYVQDYED
5522	35890	A	5568	1	897	
5523	35891	A	5569	1	2658	
5524	35892	A	5570	1	441	
5525	35893	A	5571	3	427	

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5526	35894	A	5572	1	952	PRLVLLKMAPLDDLKYVEIARL CKYLPENDLKRLCDYVCDLLL EESNVQPVSTPVTVCGLIHGQF YDLCELFRTGGQVPDTNYIFMG DFVDRGYYSLETFTYLLALKAK WPDRLTLLRGNHESRQITQVYG FYDDCLTKYG\NANAWRYCTK VFDMLTVAALIDEQILCVHGGL SPDIKTL\D\QIRTIERNQEIPHKG AF\CDLVWS\DPEDVD\T\WALS PRGAGWLFGAK\VTNEFGS*ST NLKLCRAHQLVHEGYKFMFD EKLVTVWSAPNYCYRCGNIASI MVFKDVNTREPKLFRAPDSE RVIPPRTTTPYFL
5527	35895	A	5573	54	588	
5528	35896	A	5574	1	4287	
5529	35897	A	5575	1	507	
5530	35898	A	5576	1	1416	
5531	35899	A	5577	1	841	ILLWDVDGGLTQIDKYLVSSED YIKSGALLACGIVNSGVRNECD PALALLSDYVLHNSNTMRLGSI FGLGLAYAGSNREDVLTLLLPV MGDSKSSMEVAGVTALACGMI AVGSCNGDVTSTILQTIMEKSE TELKDTYARWLPLGLGLNHLG KGEAIEAILAALEVSEPFSA NTLVDCAYAGSGNVLKVQQL LHICSEHFD\SKEKEEDKDKKEK KDKDKKEAPADMGAHQGVAV LGIALIAMGEEIGAEMALRTFG HLLRYGEPTLRRVPLALAL
5532	35900	A	5578	2	391	AFGVTEPGCYGVLDVDTGKSTL FVPRLPASHATWMGKL/HSVLT SQKPSVLLTLRGVNTDSGSVCR EASFDGISKFEVNNTILHPEIVE CRVFKTDMEVLRYTNKISSE AHREVMKAVKVGMEKEYELER

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5533	35901	A	5579	18	1541	RRCRANMAAATGPSFWLGNET LKVPLALFALNRQRLCERLRKN PAVQAGSIVVLQGGEETQRYCT DTGVLFRQESFFHWAFGVTEPG CYGVIDVDTGKSTLFVPRLPAS HATWMGKIHSKEHFKEYAVD DVQYVDEIASVLTSQKPSVLLT LRGVNTDSGSVCREASFDGISK FEVNNTILHPEIVECRVFKT\DM EL\EVRLRYTNKISS\EAHREV\MK AVKSGEWKEYGVGKASFEHY\ CYSRG\GMRH\TSY\T\CILRAVG *GTSAVLTFTGH\AGAPNDRTIQ NGDMCLFDMGGEYYSVASDIT CSFPRNGKFTADQ\KAVYEAVL LSSRAVMGAMKPGDWWPDM\ HRLAYRIHLEELAHMGILSGSV DAMVQAHLGAVFMPHGLGHF LGIDVHDVGGYPEGVERIDEPG LRSLRTARHLQPGMVLTVEPGI YFIDHLLDEALADPARASFLNR EVLQRFRGFGGVRIEEDVVVID SGIELLTCVPRTVEEIEACMAGC DKAFTPFSGPK
5534	35902	A	5580	1	98	
5535	35903	A	5581	1	810	

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5536	35904	A	5582	1	861	MLKEIIDDITNKWKHIPCWMG RISIVKMTILPKAIYKFNAVLIKI PPSFFTELEKTILKFLCNEKRAS RAKARLNKKNKSGGITLLDFKR YYSAIVTKTVWYWKNRHHQ RNRIENPEINPNTYSQIFNKAN KNIKWGNDTLFSKWCWDNWL ATCRRMKLDPHLSPHTKINSRW IKDLILRPETTKILEDNIGKTLLD VGLGKDFMTKNPKANARKAKI NIWDLIKLSFFTAKGTVSRVN RQPTWEKIFIHTSDEGLLISRI YNELKQISKKK\TNNPIKKWAK DMNRQFSKEDVQMANKYMKK CSTSLIANLICREMQIKTTMQY HLTPARMAIHKKSKISRCWHGC GDQGTLLHCWWECKLVQPLW KTVWRFLKELKVELPFDPAIPL LGTHPEEKKSLCKKDTCTCMLL AAQFTIAKSWNQPKCPSVNEWI KKLCPRWLLSKWASA*NKWK HIPCSWMGRISIVKMTILPKAIY KFNAVLIKIPPSFFTELEKTILKF LCNEKRASRAKARLNKKNKSG GITLLDFKRYYSIAIVTKTVWY WYKNRHHQRNRIENPEINPNT YSQIFNKANKNIKWGNDTLFS KWCWDNWLATCRRMKLDPHL SPHTKINSRWIKDLILRPETTKIL EDNIGKTLLDVGLGKDFMTKN PKANARKAKINIWDLIKLSFF TAKGTVSRVNRQPTWEKIFIH
5537	35905	B	5583	473	1694	
5538	35906	A	5584	1	429	
5539	35907	A	5585	572	1149	PPVSHSMTLGNSYLFAPNWTIT PAW/CNTLDPSEFGWQASLSL PSHQQFEHTCPEWLPTYSWPCK VGPDYLSEICQPECKQHFQESL TESSKQNIYETCAIYVSSPGERIL NQRFGPHGAFILVREYDDIRFS HSGPPSTCPNFPGPSYYTARESA YALKLRALEIIQISQSTKMQRNL GNPILPAIHQQPPQ
5540	35908	A	5586	1	804	
5541	35909	B	5587	1	1995	

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5542	35910	A	5588	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRNL *NRVKAIM/VGKAEWKTIPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHKLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFESPEQEALQQVQAVV QAALPLGPYDPADPVLLEMSV ADRDVWILWQAPISESWRPP GFWSKALPSSADNYSPPERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDLSSPKMCHPQQ
5543	35911	A	5589	1	1337	MIISIDAEKAFDKIQPFMLKTL SKLEETASPSPVVATYTPQPM PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIRLK KIGMVEWISHFRPTLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKQYHIPGAITEISATIE DLKETGVVILTTSPFKSSIWPLQ KTDGSRMTVNYHKLNVQVET PIAAVPDVVSLLEQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQQQYTFTFLPQGYIN SPDITLVHYIDIMLIGSSEQEV ANTDLLPARVASWGVYPDQL T/GGRED*GLLHRWSCRICRHH
5544	35912	A	5590	2	693	KIVN/QKQYHIRGGIAEISATIKD SKDTGVVIPTTSPFNSPIWPVW KTDGSWTITVDYHKLDQVVTP AAAVPDVVSLLLEQINTSPGTWY AAINLENAFFSIPVHKANQ/KQF AFSWQQQYTI AVL PQ/VKFLG IHWFVACQDIPSKIKDKLLHLA PPTNKKEAQCLVGLFGFWRQHI PHLRVLLQPIYQVTLKAAIFEW GPEQEALQQVQAAVQAALPL GPYDPTDPMVLE

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5545	35913	A	5591	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAAVALQPLSRTS LKDSSEGKSSQWAEQAVYLV VHFAWKEKWPDPVGLYTDSWA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRTSAEEEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLIH CYG IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
5546	35914	A	5592	7	278	SASCTAAFHHQMEVVYTRSGS SRS*R\PTIPVIAQWDYDHNGHG GRDGGYPWAQQHELPLTKADL ATATAECPICQQQRPSLSPRCGT IPR
5547	35915	A	5593	1	237	
5548	35916	C	5594	63	116	
5549	35917	A	5595	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAALQPLSRTSLKGS GEGKSSQWAEQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
5550	35918	A	5596	1	354	
5551	35919	A	5597	3	592	
5552	35920	A	5598	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVVSVDKDAVWI FHLSGSDRWRRTYRCL
5553	35921	A	5599	1	483	
5554	35922	A	5600	1	1908	
5555	35923	B	5601	141	1569	
5556	35924	B	5602	46	1533	
5557	35925	A	5603	61	448	WRFLGPWRIVSCWFCGWEERR EGSAFFVGIPARMSAARESHPH GVKRSASPDDDLGSSNWEAAY LGNEERKQKFLRLMGA/GKGEE DQKINEELESQYQHSMDSKLSG RYRRHCGLGFSEVEDHDGEGD

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5558	35926	A	5604	1	404	PWRIVSCWFCGWEERREGSAFF VGIPARMSAARESHPHGVKRSA SPDDDLGSSNWEAADLGNEER KQKFLRLMGAGKKEHTGRLVI GDHKSTSHFRTG\EDHDGEGDV AGDDDDDDDDSPDP*SPDDSES DSESE
5559	35927	A	5605	2	434	LGPWRIVSCWFCGWEERREGS AFFVGIPARMSAARESHPHGVK RSASPDDDFFLFAIMNGK*KIV NSHRCSVKAKSRQQLGSSNWE AADLGNEERKQKFLRLMGAGK KEHTGRLVIGDHKSTSHFRTGE ED*KINEELESQYQH
5560	35928	C	5606	909	1096	
5561	35929	A	5607	1	309	PQPAAMAAYIWVLIRHGESAW NLETFSFGWYDATLSLAGHKE AKRGGQALRGLFQVPLAPEAV GTVWCSWRTPCALKQL*PRPL KRRLRILADRHATQPRPQQ
5562	35930	A	5608	93	914	SQSVPHQPQAAMAAYK\VLG\ RHGESAWNLENRFSGWDDADL SPAGQRGGERFAAQALQDAGY EFDICFTSV\QKRAIRTLW\TVL\ DAFDQMWLASGEGLWGFNER HYWGS*PGLN*KQKLAAGIG*G PRLKI\WRRSY\D\VPPPMEPDH PFYSNISKDRRYADLTEDQLPS C\ESLKD TIARALPFWNEEIVPQI KEGKRVLIAAHGNSLRGIVKHL EGLSEEAIMELNLPTGIPIVYEL DKNLKPIKPMQFLGDEETVRKA MEAVAAQGKAKK
5563	35931	A	5609	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANYP VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFYSEMP
5564	35932	A	5610	1	663	
5565	35933	A	5611	1	2034	

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5566	35934	A	5612	374	1106	IPVSEKQGSQWRFFSVYVFNKA GGLIYQLDSYAPTGLRLEKTF\S YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVL\AINGM\DVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRL\TSNE\KLMLGLP CFHSLFAIG\SQACLPGTREASR HLKILGRQDTFK\LH\CYQTLTG IKFVVL\ADPR\QAG\DSLLRKI YE\Y\SDFALKNP\F\YSLEMPIR CELFDQNLKLALEVAEKAGTF
5567	35935	A	5613	1	336	
5568	35936	B	5614	60	2175	
5569	35937	A	5615	2	198	
5570	35938	A	5616	1	449	
5571	35939	A	5617	1	771	
5572	35940	A	5618	18	736	EAMSSKVSRTDLYEAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGT/VQVGTVLIPPS PQCPRACSPAGSR*AGGGHVG TDVLG*FRPPAPGRRGWTDPHP GS*NMRGGVGRPRSPASLRS QAGCW*M*TLRVRLGWLLRSQ TLHRALGTPGLGVTCWCCPPK RRLKSTPRPKFSVCVLGDQQHC DEAKAVDIPHMDIEALKKLNK NKKLVKKLAKKYDAFLASESLI
5573	35941	A	5619	24	698	EAMSSKVSRTDLYDAVREVLH GNQRKRRKFLETVELQISLKNY DPQKDKRFSGTVRLKSTPRPKF SVCVLGDQQHCDEAKAVDIPH MDIEALKKLNKNKKTGSRSWP KKYDAFLA/SQSPLIQADSPKSL GP\SLNKGRKSSPSLLTH\NKNM VAKVDEVKSTIKFPNWRCLCL AVAVGHVKMTDDELVYNIHLA VNFLVSLKKKNWQNVRLYIK SPMGKPQRLY
5574	35942	A	5620	1	843	

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5575	35943	A	5621	3	1215	LLIMADPRDKALQDYRKKLLE HKEIDGRLKELREQLKELTKQY EKSENDLKALQSV\GQ\VGVEVL KQL\EEKFIVKATNGPRYVVG C\RRQL*QKVSLKPGTR\VALD MTTLT\MEDILPR\EVDPLVYN MS\HEDPG\NVSYSEIGGLSE\QI RGI*GEVIGLPLYK PQSYFQRVG IIPPK\GCLLYG\PPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFMDEIDAIGGRRFSEGTSADRE IQR TLMELLNQMDGFDTLHRV KMTMATNRPD TLD PALLR PGR LDRKI HIDLPNEQARLDIL\KIHA GPITKHG\EIDYEAIVKLS DG\FN GADLRNVCT\EAGMFAIRADHD FVSTGKTS LKAV\RKVADSKKL ESKLDYKPV
5576	35944	A	5622	104	173	
5577	35945	A	5623	1	1140	
5578	35946	A	5624	1	528	
5579	35947	A	5625	1	1083	
5580	35948	A	5626	1	471	
5581	35949	A	5627	1	2322	
5582	35950	A	5628	1	678	
5583	35951	B	5629	213	1477	
5584	35952	A	5630	2	339	FGLHKWGLGLEASSPCGPLTPS YLGFP RPHPGTLGLGRFWPFLA LQSLSETPSHARMPRVTVARTS PETLEISPLRAAT*NHRSSGHTC FRERMLRVSCRLSLDLSSSWVR
5585	35953	A	5631	1	783	

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5586	35954	A	5632	92	2746	ASRMTVLQEPVQAAIWQALNH YAYRDAVFLAERLYAEVHSEE ALFLLATCYRSGKAYKAYRL LKGHSCTTPQCKYLLAKCCVD LSKLAEGEQILSGGVFNKQKSH DDIVTEFGDSACFTLSLLGHGH VQTERAAKGTAFFSPKRLCLHTF P\WTPLEPLVEIGERPLPHQTFN\ FTS*\RNFANCLHTSGTKQVTN\ HVF\SHRQPETVLTETPQ\DTIEL NRLNLESSNSKYS\NTDSSVSYI DSAVISP\DTVPLGTG\TILSKP VQ\NPKPTGRSLLGGPAALSPL TPKFWGFLPIRKPP\SPG\DG\SY LQNYTNTPPVIDVPSTGAPSKK TFRVLQSVARIGQTGKSVFSQ SGNSREVTPILAQTQSSGPQTST TPQVLSPTITSPPNALPRRSSRLF TSDSSTTKENSKKLKMKFPPKIP NRKTKSKTNKGGITQPNINDSL EITKLDSSIIEGKISTITPQIQAF NLQKAAAEGMLMSLLREMKGK YLALCSYNCKEAINILSHLPSHH YNTGWVLCQIGRAYFELSEYM QAERIFSEVRRNIENYRVEGMEIY STTLWHLQKDVALSVLSKDLT DMDKNPESGTQRGRESRMC GADSQIEKSQSSYFIQDLSRFDY VKFAVVTKIRAWCAAGNCFSL QREHDIAIKFFQRAIQVDPNYA YAYTLLGHEFVLTEELDKALAC FRNAIRVNPRHYNAWYGLGMI
5587	35955	A	5633	260	678	GEFSIFFWVWN*LLLWHQETFS I*NLFFSSH*TSITYQATEEGDFII QMCLIHFGDSIFIYLLKLLILNRK P**EAAISI*V*TWRSRFSHFQLR *HQTQVTNHSWFTEAR*LTDLV KSKSPTIPCSRFKANTLF**SDP
5588	35956	A	5634	1	1452	
5589	35957	A	5635	2	1563	
5590	35958	A	5636	1	444	
5591	35959	A	5637	2	345	

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5592	35960	A	5638	2	1721	RSREAAAVAAAAATTAFGCRI WNPCAALTMKQSSNVPFLSK LWTLVEETHTNEFITWSQNGQS FLVLDEQRFAKEILPKYFKHNN MASFVRQLNMYGFRKVVHIDS GIVKQERDGPVEFQHPYFKQQQ DDLLENIKRKVSSSKPEENKIRQ EDLTKIISAAQKVQIKQETIESRL SELKSENESSLWKEVSELRAKHA QQQQVIRKIVQFIVTLVQNNQL VSLKRKRPLLLNTNGAQKKNL FQHIVKEPTDNHHHKVPHSRTE GLKPRERISDDHIIYDVTDDNAD EENIPVIPETNEDVISDPSNCSQY PDIVIVEDDNEDEYAPVIQSSEQ NEPARESLSSGSDGSSPLMSSA VQLNGSSSLTS\EDPV\TMDGFP FGMDNIQSFWGRVELLDY\LDL IDCSLEDFQAMLSGRQFSIDPDL LVDLFTSSVQMNPDTYINNTKS ENKGLETTK\NNVVQPVSEEGK ENLKSKP\DK\QLIQYTAFLAF LDG\NPASSV*TGRGTTASFRKF CPL*DKPIEVDELDDSSLDPEPT QSKLVRLLEPLTEAEASEATLFY LCELAPAPLDSDMPLDLS
5593	35961	A	5639	2	251	
5594	35962	A	5640	70	297	QLRSPLKWKKAQRQPLAIAHV LLLPRKRRQNGFFTTRYARLL STLPRSWRR\KQWY*AQNHVRS PEWKWHYQSL
5595	35963	A	5641	3	985	
5596	35964	A	5642	1	3501	
5597	35965	A	5643	1	1752	
5598	35966	C	5644	1	879	
5599	35967	A	5645	21	519	LHIPVRTLSCRFVVCWRSTPG PVCLGISSGGCRTVDIAALQLW LRGLALPEQLLRVDHPQACRR LPREPP\GPGQTFGTREPPQAVS TKEASSNLHAPERTVAGLTFT TEQVRALEGVFRHHQYLGPLE RNWLAREMQLS\RSR*KPGFKI AG*NTNGKCRTPS
5600	35968	A	5646	90	2401	
5601	35969	A	5647	776	1018	
5602	35970	B	5648	1	1296	
5603	35971	A	5649	1	1257	
5604	35972	A	5650	731	4841	
5605	35973	A	5651	325	9497	
5606	35974	A	5652	1	322	
5607	35975	A	5653	1	819	

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5608	35976	A	5654	56	251	
5609	35977	A	5655	149	701	
5610	35978	A	5656	3	415	
5611	35979	A	5657	3	467	AIASPRAAGIRHELTSTMAAGK NKRLTKGGKKGAKKKAV/DNII NIGKTLVTRTQRTKIASDGLKG RVFEESLADLQND\TDGYLLRVI *VAFTTERTNQI/REVFNKLIPDS IGKDIEKACQSIYPLHDDFARK VKMLKKPKFELRKLMEHGE
5612	35980	A	5658	2	418	PRVRADGKNFRLTKGGELGAR NKVVDPFSSKDWYDVKAPAM FNIRNIGKTLVSRTQGTKIASDG LKGRVFEARLADLQNDVAFIK CKLITDDVHGKNCLTIFHGMDL TRDKM\CSLGKKWQTMIEAHV DVKTDTGYLL
5613	35981	A	5659	3	121	
5614	35982	A	5660	1	237	
5615	35983	A	5661	25	967	FSPAAGIRHEGSLTSTMAVGKN KRLTKG\GKKGS\KKKVVDPFP R\KDWY*RRKHPLMFHYKN\IG KTLVTQDPKGP\IA\SDGLQGF VCLKVSLADLQ\NDEVASRKF\ RLITEVCFRGKNLP*LTSHGAW DLYPVTMCSHGQKNWQTM DSSR*MFKTNPMGYLALRLFLC /VGFT*KNRNQFRLRKAPPYAS ATQQVPPKSRKKMMEIMTPR GARQNDLEKKWVKNLIPRQAL GKDIRKGPAQSYFIPL\HDVLR EKLKLEGGSPKF*IGESSLGASM GGRAVVPKGSHLGTGTGAKVG TSLMGYEPPVPRILV

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5616	35984	A	5662	1	2142	MIILIDAEKAFDKIQQPFMLKTL NKLIGIDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM

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5617	35985	A	5663	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLELEETTVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSL FNKWC WENWLAICRKLKLD PFLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIKKSGNNRHAPFSIH THIMFGSLYLQIQKDL SILGFW YPRGILEPIY
5618	35986	A	5664	1	1910	MTIINIINIIITITIIIVHIITINIVIT TTILTTVIISSTIIITIFVFETGAI KLEIRIKKLTQNRSATWKLNNL LLNDYWVHNEMKAEIKMFFET NENKDTTCQNLWDTFKAINKID RPLARLIKKKREKNQIDAIKND KGDITD TTGIQT TIREYYKHLY ANKLENREEMDKFFDTYTL PRL NQEEVESLNR PITGSKIEEINS SIKKSPGPDGFTA EFYQRYKEE LVPFLLKLFQSIEKEGII LNSCCE ASIILIPKPRD TT KKENFRPISL MNIDAKILNKTLANRIQQHITK LIHHVQVGFIPGMQGWFNIRKS INNWKKTTLKLIWNQKRACITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEIIPHTYNYLSFDKPDKN KKWGNNSL FNKWCWENWLA ICRKLKLD PFLTYTKINSRWIK DLNFGTETIKTLEENLGNTI HDI GMGKDFMSKTPKAKATKAKID KWDLIKLSFCTAKETTIRVNR QPTWEKIFA IYPSDKGLISRIY KELKQVYKKKTNNPIKKWAKD TNRHFSNEDIYAANRHMKKCS SSLAIREMQIKTTMRYHLAPVR MTIIKKS GSNRQ/W*ASGHVRC

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5619	35987	A	5665	1	2460	MPHAGHARSPGHTLIKLAEEWW MSRWMEWNPFGPLSIDAKCHK DLPRDIQFDSEKGVDFVLNYSK ALNQEEVESLNRPTGSEIEAIIN SLPTQKSSGPDGFTAIFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPGRYTHKKNNFRPI SLMNIDAKILNKILANRIQQHIK KLIHQDQVGIIIPGMQSWFNIHK SINVIQHINRTKDKNHMHSIDAE KAFDKIQQPFMLKTLNKL\GIK YLRIQLTRDVKDLFKENYKSL NEIKEDTNKWKNI PCSWIGRMN IHKMAI/LPKVIYRFNVIPIKLPM FFSELEKSTLKFIVNQKRARIAK TILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEMTPHIYNHLIFDKPDKN KQWGKDSL FNKWCWENWLAI GRQLKLDPFLTPTKINSRWIK DLNVRPKTIKLEENLGNTIQDI SMGKDFMSKTPKAMATKAKM DKWDLIKLSFCTAKETTIRVN RQPTWEKNFAIYSSDKGLISRI YKQLKQIYKKKTNNPIKKWAK DMNRHFSKEDVYAANRHMKK CSSSLAIREMQIKTIMIYHLTPV TMAIIKSGNNRCWRGCGEMG TLLYCWWDCCLVQPLWKTW QFLRDLELGIPFPAIPLGIYPK DYKSCCYKDTCTPKLARDQI HILKQHRRKELETRQKQYRAW
5620	35988	A	5666	689	1909	LIAYQPKKSRTRWIHNQILPERI KYLGIQLTRDVKDLKEKYKPL LNEIKEDINKWKNI PCSWIGRIN LVKMAIL/PQAICRKLKLDPFLT TYTKINSRWIKDLHVRPKTTKT LEENLGNTIQDIGMGKDFMSKT PKAMATEAKIDKWDLIKRSFC AAKETTTRVNRQPTDWEKMFA IYSSDKGLISRIYEELKQIYKKK TNNPINKWAKDMNRHFSKEDI YAANRHMKKCSSSLAIREMQIK TTVSPFAAQWVSQRYGKWQEA HPSNNDGKGYRGKPRFQSLSD VHGPDQKKIIESALPPTPTFI NILMNAKTIENGQFPYLLNALK QQQPHDAENLFTWGKENAAIV SPCIEVSAALSQWKVPAWPQRS GIPNRILRSPIGLGSWVAFLDL VWVRGDPTALK

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5621	35989	B	5667	1	1962	
5622	35990	B	5668	1	1851	
5623	35991	A	5669	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDAEKA FDKIQQLFMLKTLNKLIGDGT FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLEFNKWCWE NWLAIKRLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIKKSGNNRCWRGC GEIGTLLHCW\WINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
5624	35992	A	5670	2	1967	

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5625	35993	A	5671	1039	2272	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKLELEETTVKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSLFNKWC WENWLAICRKLKLDPLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTTYSDDK GLISRIYNELKQYKKKTNNPIK KWAKDMNRHFSEEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIHKSGNN
5626	35994	A	5672	1	3477	
5627	35995	A	5673	1	2814	
5628	35996	A	5674	1	2093	
5629	35997	A	5675	1	2724	
5630	35998	A	5676	1	4680	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKDGPDP GFTAEFYQRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARITKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNAEPSEIML PIYNYLIFDKPDKNKQWGKDSL FNKWCWENWLAICRKLKLDPL LTPYTKINSRWIK
5631	35999	B	5677	1	1989	
5632	36000	A	5678	1	2784	
5633	36001	B	5679	1	3573	
5634	36002	B	5680	1	2630	
5635	36003	A	5681	5339	10577	
5636	36004	A	5682	1	873	
5637	36005	A	5683	1	672	
5638	36006	A	5684	1	435	

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5639	36007	A	5685	1	1011	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIAQRARTMALYNPIV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKE\DV RTHRK EAKNLEKRLDKM\VN RINSVEK TLNDPMELKTMARELCDACTS FSS*FNQVEEKVSVIEDQMDDEM K*EEKFREKRVKRNEQSLQEIW DYVKRPNLRL
5640	36008	A	5686	1	1539	
5641	36009	A	5687	1	756	MDDPRLNVKPLTESLETYSGKS KLEGDVITDSKLNDCRCPST KLPEEGLGSNICCSAIFAVLQPL LVIPRQTGSGVDHQQTPTDLRM TVRRKMKNKQKGIASSTSTKRTK KDIHTKTPSVCHQHQRPKDCSP SPATEQSWMENDLEELTEIGFR RSVITNFSELKEDVRIHHKKAK NLGKRLDEWLTRINSVEKTLND LMELKTMARELHDSCTSFNSRS NQAEKVSVIDQFNEIKREEK FREK\RVKRN
5642	36010	A	5688	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIAQRARTMALYNPIV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDV RTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACTS FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QSLQ*I WDYVERPNLRL
5643	36011	A	5689	1	672	
5644	36012	A	5690	1	807	
5645	36013	A	5691	1	1617	

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5646	36014	A	5692	1064	1893	LLEGSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSAASSPPKDC\SSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLKK RLDECLTRINSVEKKTLDLME LKTMAQELHDTCTSFNTQFDQ VEERVSVIDQINEIK*EEKFRE K\RVKINE*SCQEIWD*VKRPNI HLITVPESDGEKGTKLENTLQDI IQENFHNIARQANIQIEIQRTA QRYSSRTATPRHIIVRFAKVM KEKVLRAARKKG
5647	36015	A	5693	3	620	EAGWLLLSSVDEVMKENDEL DSISQLQKQILSLKSAKIALTESL ISFRERAEIVEKQTQALIM*VAD LQQGNDQTFQGLLDTGSELT PGDPKHHC GPPGPKVRAYGDQ VINGVLAQVQLIVGPVGPWTHP VVISPVPECVIGAILNSWQNP HISLTGRVRAIMVGISWQQQY TFTVLPQRYINFALCHKTAKR HTARR
5648	36016	A	5694	1	1098	
5649	36017	A	5695	2	563	IIRRAVFRWFWG*RSWGLNMIR PQNTKDSNSNCLEKTDSPWCEL FKELYKINAFDTPDSLLMRGNE FSDPIHHTFDHMMWRTKEHNEA GWLLLSSVDKVMKENDELGDS ISQLQKQILSLKSAKIALSES LISCRERAEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD
5650	36018	A	5696	1	499	FVLVDVNNMWHRYASMLYER RLLIHCKSLSTLTACIHGFAAML YPMYWQHVVYIPVLPPLLDYC CAPMPYLIGIHLMEKVRNMA LDDVVILNVDNTLTETPFDDLQ SLPNDVISSLKNRLKKVSTTTG DGVARAFLKAQAFFGSYRNA LKIEPEEPITFCEEA
5651	36019	A	5697	1	795	
5652	36020	A	5698	103	3531	
5653	36021	A	5699	1	2073	
5654	36022	A	5700	1	901	
5655	36023	A	5701	148	639	
5656	36024	A	5702	1	318	REYGTPEQLNLALLTLNFLSL PKGQMLSAAEQHLQKPAAKTE A/GRMIWQRDPITKIWEIGKIIT WGRGYACVSPGQNHQSVWIPS RHLKSCHGPDAAKEEIPGGS

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5657	36025	A	5703	1	612	PTRPIKHITDIPYNSEGQAIVER MNLSLKQQLQKHKKGGK/SKD YGTPHMQNLALLTLNFLSLPK GQILSVAEQHLQKPAAKTEAEQ LVWWRDPITKS*EIGKIITWGK GYACVSPGLTQQPIWIPSRHLK PYHEPDAEEEIPGGSRGPPPPV/ DSHVETDAEEEPHCHEQHLSNT ATHLGTDQEA VTAGGRKPEES KTTSHNK
5658	36026	A	5704	2	791	
5659	36027	A	5705	2301	2620	DGQQIALHRLALRELQQAGH AGLPQQA KILFDGGSEIGKIRGL QRPAKNRLSGRGPLREPSPK*F FGVQGRKTLNRTLKGAPH*NL AAKAGKPLSPCTSGRIRM
5660	36028	A	5706	1	1010	MDDIPQEAGRYRHNQAYAYSI QGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ GSDLVLYGTSTPKNLIWVRVH VVGHRPDRRFFAFDVWSPRSLI VDSCSKLEQHS TLRAILLIYKG FCRFRNHHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGFPTGKRAVSATQLMD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQANVQQFIDEGNYTS GDNHTLRDPHYVEDKGHKYLV FEANTGTENGYQGEESLFNKA YYGGGTNFFRKESQKLQQSAK KRDAELANGALGIIELNNDYTL KKVMKPLITSNTVTDEIERANV FKMNGKWYLF TDSRGSKMTID GINSNDIYMLGYVSNSLTGPYK PLNKTGLVLQMGLDPNDVTFT YSHFAVPQAKGNNVVITSYMT RGSSR*RQRP*IPCIRSQHGNRK RIPR/SKNLYLT KRTTAAARTSS VKKARSFSRALKNAMLS*RTAP
5661	36029	B	5707	1	1149	
5662	36030	B	5708	55	3947	
5663	36031	B	5709	4	885	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5664	36032	A	5710	461	1560	SLQTRDLPISPPSNRIFACWGK PAWTACCNSLRARR*RAISCCP SH*KRIPRRRIFI*PKRTTAAART SSVKKARSFSRALKNAMLS*RT APSVS*S*IMITH*KK**SR*SLQ TRDLPISPPSNRIFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGIPDWKAGSERNAI NGAIALIEGFRPLTLEPSSLIVNS CSKLEQHSTLSRAILLIYKGFCR FRNHHQ'IGFSPAGPNQRGPLAA TLSGPGGEGQSAVARLTGEKK NHPGAQYANRLSPRVGRFINAA GTTGFPTGKRAVSATQLM
5665	36033	B	5711	1	1458	
5666	36034	B	5712	1	3573	
5667	36035	A	5713	606	1005	GGMLCGTSLGPDGEGQSAVAR LTGEKKHPRGDQ*QKAPLLAR W/RNPLMLAQ/PDFPTGKRAI DTHRSVSHAHIIITHSSTLSSDIS HTDAPNTSSNNYVIAITSPSDTA PTSRTPLHRIHHTTPIPIATLARP
5668	36036	B	5714	1	1566	
5669	36037	C	5715	29	2314	
5670	36038	A	5716	597	1384	ISYTVPEALSARSNPAACQHAS CRPAACPVASVGSPRQPAPGGA GGHRHWPRRRWLRQRPRPSA PGRPRRPRPRRRHRRRPRPH HHAPPPRPSCAETRSRRGGRR PLPRPLPPGAAGAGHREVGDK AGAAGCGRRVVALAA/PVSPPS SPSSPSPSLLSAAVGVAGCFSAE LSDSRLLAPGGEGPLARSPAR CDPAAGSACPAGWSSRQSRSC ELMCAAGISCWHTGHCTWCSL SFMPLVLMILAASFRPVAVSSH
5671	36039	B	5717	1	3873	
5672	36040	C	5718	356	784	
5673	36041	A	5719	1303	1664	KRRDEIIPCVLKQLLVTFITCR ASCINESANARGEAVCVLGAR VV/SSFHQ*DGQQLIALHRLALR ELQQAVHAGLPQQA KILFDGGS EIGKIPYKSKE*PENRLSVVPVW EQUESTLASV

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5674	36042	A	5720	453	915	TVSRWAMLEHILLFSREPSNKE PET*AHSM*ADDKRFAAYKKK TKGGTERWDKYGRRPANGIRT GENNAKTEHLRDRDQKR/PRER ERAR*TTEITEQEGSG*GEPVEQ MRKRRAQAWSRRKSTGSQTET RSVRVTRVGLKTASESRRIRTM EQN
5675	36043	B	5721	319	1469	
5676	36044	B	5722	164	3112	
5677	36045	A	5723	1	1102	MRWTPGHEITKALQTFQRYTGI QHVHRIGMAERMWCDNRNER HTVSSSGGNRLPNPEHFEAFQS VAQCTYNQTVQLDITAFKLT KKNKHKFYPAFIHILARLMNAH PEFRMAMKDVDSCKLEQHST LSRAILLIYKGFCFRNHHQTGF SPAGANQRGPLAATLSGPGGEG QSAVARLTGEKKNHPGAQYAN RLSPRVGRFINAAGTTGFPTGK RAVSATQLIYRELFPPQLVQLD PCSVPCMPPPTSPKSRAWVSDI ALLEFQKKKEMEKKKEKERKK ELQGGRRRRGGGWGKGRER GGRGKKRRGGGEAIRDAEKAG RLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGLRLRAEDVFPP VIGVAAHKGGVYKTSVSVHLA QDLALKGLRVLLVEGNDPQGT ASMYHGWVPDLHIHAEDTLLP FYLGEKDDVTYAIKPTCWPL DIIPSCALHRIETELMGKFDEG KLPTDPLMLRLAIETVAHDYD VIVIDSAPNLGIGTINVHPAWS AISLLEYSPLAGFVASIPAPL QLVPRWDTKPVLEDASASSRFS IPQRNPTLHPTTSFPSCNPDTV DAWMRFLITWCLYTSPYSTLM GELFPFYQGMLLESTKQGSQVR KVFVWTLVPNWNNTQPYSRAI LLIYKGFCFRNHHQTGFSPAG ANQRGPLAATLSGPGGEGQSA
5678	36046	B	5724	90	6258	
5679	36047	A	5725	837	1485	
5680	36048	A	5726	1	2993	
5681	36049	A	5727	1	123	
5682	36050	A	5728	1	960	
5683	36051	A	5729	507	755	NKRGYKQMEEHSMLMGRKNQ YRKNGHTAQGNL*IQCHPHQA TNDFLHRIGKNDQVHMEPKK SPHRQVNPKEQSWRHAT

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5684	36052	A	5730	274	882	PDQVDRGGAHWQTDADDPWL ADHLQHCQRCGEILRHYSGGIR GNVSAVKCAEHHVPAFARLRN PQCGDFQRLDYRLFDSPGVKRR EL*TAYRFCHVAP*LMDLRSG WAAGAVYRYQSH*FTADRLRS\ VDMDEAGNHHSQQT\SQDQKI KQRTFSLISGS*TTRTHGHREGN ITHRGLSRPNTARILCASKAHLG LPLRSSLP
5685	36053	A	5731	114	329	
5686	36054	C	5732	1	1983	
5687	36055	C	5733	1	588	
5688	36056	A	5734	1	597	
5689	36057	A	5735	1	721	MTSYNEQNKKPVTDPNEMAIH EDSNQEFKIAVVNETQSRSSP TEHLMTPPPLPTREQQPPLTVIF HYLPKSYKTAPPLSPFPDSLFG SQPAPRDMDEAGNHHSQQT\K QEQKTKHCMFSLTSGS*TMRTH GHREGTVIHRGLLGQFSQQLIN KSEFSNTVCREKSGRVLQVNM ESPL*MIQDALQDQTTKGPITV FL*LFYLDHLLRSSHKVASYLST ESRSRGSITVLFIRCSEP
5690	36058	A	5736	417	696	DRNRKANTACFQHSQVGVEQ* EHMDTGKV*SI*YGNYEHTSTC ERMEIQKATTEHLNL*S*SGSFL RFTWKMLQFSKISR SFYQVLKH QQKIM
5691	36059	A	5737	325	1489	RSPTLLMHVHYIKVISWRELLI WLRAANASINPGVEQSPSGDPK TVTGFPLRLAADWVEEASVP KGVHIALSSQEQRAGDPRDLEA PSNLVISERTHRFRVSWTPPSD SVDRYKVEYYPVSGGKRQEVV RTPGVPLRLPAIIPQAAWLLA HLPAPSAPPTLPTKHTEAQSQ RCWSLLLCVTEVAAPSQVVK EAPPSFHTGTENGYQGEESLFN KAYYGGGTNFFRKESQKLQQS AKKRDAELANGALGIIELNNDY TLKKVMKPLITSNTVTDEIERA NVFKMNGKWYLFDSRGSKM TIDENKIPRNPTYKGREGPLQGE LQTTAQGNKRGYKQMEEHSM LMDRKNQYRENGLTAQA\QPP PSGI*GYTAPCFPWENLI
5692	36060	B	5738	1	873	

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5693	36061	A	5739	274	716	QACYIYTTEYYAAIKNDEF/TVL CRDMDEAGNHHSQQTVTRTKN QTPHVLTHRWEINNENTWTQE GEHHTPGPVMLDSAPPTLGHQT PGSSAFGLWDLHQRLRLRPQT KGSTVGFPGEAFKLGLGHW LSFFPSLQTAYRGTLFNFH
5694	36062	B	5740	134	2283	
5695	36063	A	5741	3	872	
5696	36064	A	5742	1	480	SKLNSGDGCWSGARRGSAHSR SPLPSLRPRAKMATEGLHENE TLASLKSEAESLKGGLEERAK LHDVELHQVAERV/VGPGAVC HEDQKDPQRPREQSPVHGLVQ R*EEDRELVTGWEGDRVGFLH HKQGARGHHALHVGDMCLC PIGMCHCLWWFG
5697	36065	A	5743	3	387	AKMATEGLHENETLASLKSEA ESLKGGLEERAKLHDVELHQ VAERV/VGPGAVCHEDQKDPQ RPREQSPVHGLVQR*EEDREL VTGWEGDRVGFLHHKQDPDSER RWHMCPVGRGERAAAAELPRT
5698	36066	A	5744	1	1575	
5699	36067	A	5745	20	510	
5700	36068	A	5746	1	1392	
5701	36069	A	5747	1	1560	
5702	36070	A	5748	3	325	
5703	36071	C	5749	206	409	
5704	36072	A	5750	1	855	
5705	36073	C	5751	233	571	
5706	36074	A	5752	1	3600	
5707	36075	A	5753	1	4137	
5708	36076	A	5754	3	1357	
5709	36077	A	5755	3	194	
5710	36078	A	5756	3	269	
5711	36079	A	5757	1	1770	
5712	36080	A	5758	164	411	RKNRKPNTAFLTHKWELNNEN TWTQGGNITHQG/CWGVQG*R RDSIRRNT*CKCRVPGCSKPPW HVYTYVTNLHLHMYPR

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5713	36081	A	5759	1	3095	MKMADAKQKRNEQLKRWIGS ETDLEPPVVKRQKTKVKFDDG AVFLAACSSGDTDEVLLKLLHR GADINYANVDGLTALHQACID DNVDMVKFLVENGANINQPDN EGWIPLHAAAASCGYLDIAEFLIG QGAHVGAVNSEGDTPLDIAEEE AMEELLQNEVNRQGV DIEAAR KEEERIMLRDARQWLNSGHIN DVRHAKSGGTALHVAAAKGY TEVLKLLIQAGYDVNIKDYDG WTPLHAAAHWGKEEACRILVD
5714	36082	A	5760	1	591	FTVTRCYAVAQEGTYFDGSGY AALVKEGYKVQSDVNITLEVS N\PRRNGVFLGISTAIVHAIGLEL VDGKVL FHVNNAGRITAAYE PKTATVLC DGKWH TLQANKSK HRITLIVDGN AVGAESPHTQSTS VD TNNPIYVGGYPAGVKQKCL RSQTSFRGCLRKLALIKSPQVQS FDFSRAFELHGVFLHSCPGTES
5715	36083	A	5761	340	739	
5716	36084	A	5762	1234	1897	
5717	36085	A	5763	1	4070	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNRTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQFLQEFSQQ TISRTHEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
5718	36086	A	5764	1	972	

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5719	36087	A	5765	1	2193	MVPYSLLVTWLQKALGVRQY HVASVLCQRAKVAMRPFEPKY IHVDLLEKNINIVCK*LNRPLTL SEKIVYRHPDDPTSQEIERGGTY LQQWPDSVTMQD/ATAQMAM LQFISSRL/SKVTMPSTIHC DHI EAQLGSEKDLHQAKDINHEVY NFLATGSVKYGLSFWKPGSGII HQIILENYEYPGVLLIGTDSHTP NGGSLGGICIGVGA/DAVDVM TGIPWELKCPKVIGVKLMGSL GWTSPKDVILKVAGILTMKGG TGAIVEYHGPVDSISCTGMVT VCNMGLEIGTTTSVFHYNLRM KKYMSKTCQADIANLADEFKD HLVPDPGCHYDQLIEVNPSELK LHINGPFTPDLAHPVAEVGKVA EKEEWPLDI*VGLWGSCNTSSY EDMGCSAGVAKQALAHGLKC KSQFTITPCSEQIRASIEQDGYA QTLRDVGGIVLANACGPCIGQL HRKDINKQEKNIIVTSYNRNFEM GHNDTNPETHAFITSPETVTAL AIVGTLKFNPETNYLTGKDGGK FKLEAPDADELPQAEFGPGQDT YQHP/PWGTTDHISAAGP*LKFR GHLDTISNNLLSGAINIENGKAN SVHDAVTHEFGFPDRTARYKK YGISWVIGD*NYGKGSSWEH AALEPRHL\GGRAITKSFARIHE TNLRRQGLPLTFADPADNKIH LVDKLTIQSLKDLT/PGKPLKYI
5720	36088	B	5766	3	1205	
5721	36089	A	5767	435	1428	
5722	36090	A	5768	1	615	
5723	36091	A	5769	79	381	DKPQPHLQHTRTSKRLNRSSQA FLQNLLPQELATSAGNLAIRPR NACSLGFLVSRVPSLAATPRAP WNSGPRLSD*LLPRSSRLSS*RL TLPDRLGSPVDH
5724	36092	A	5770	38	452	
5725	36093	A	5771	435	524	
5726	36094	A	5772	284	411	
5727	36095	A	5773	1	354	
5728	36096	B	5774	1	942	
5729	36097	A	5775	1	417	
5730	36098	A	5776	88	279	EDLGRSQSESLGPEFQG*VVAIE TIWPTEPKIFTICLSGSHSQSPW NSGPRLSD*LLPRSSQLSS*RLT LPNRLRSLQDHHRCSR

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5731	36099	A	5777	206	816	FIDSMSPSR YQ*LSSQNWKKL L*ISYGTKNEPA*PKQS*AQR TK LEASH*LTSNCTTSLH*SKQHGT GTKTEKKT*AIPFRT*AWAKTS* LKHQKQWQKPK*TKKIKYLG IQLTTDVKDLFKENYKPLLNEI KEDTNKWKNI PCSWIGGINIMK MAILPKVIYRFNALPIKIPMTFF TELEKTTLNFIWNQKRARI AKTI LSTKNKAGGITLADFKLYYKPT LVKTAWYWYQNREENLGNTIQ DIGMGKNFMTKTPKAMATKA KIDKRDLIKPKSFCIAKETTIRM NRQPTEWEKLF AIYPSDKALIS GIYKDLKQIYKKKNNPIKKWA KEMNRHFSKEDIYAANRHVK N AHHHWSSEKCKSKPQ
5732	36100	A	5778	502	600	
5733	36101	A	5779	51	452	ADKQLQQSLRIQNQCKITSILI HQQQTNRPNHE*TPIHNCFKE NKIPRNPTYKGCEGPLQGELQT TAQGNKKGYKQMEEHSMLMG RKNQYRENGHTAQELEKTKVH MEPKKSPHRQVNP KPKEQSWR HHTT
5734	36102	A	5780	381	528	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5735	36103	A	5781	1	477	
5736	36104	A	5782	180	496	TPIHN CYKENKIPGNPTYKGCE GPLQGELQTTAQ*NKRGQKQM EEHSMLMDRKNKYHEN/EPYSP R*FIDSMSPSNYQ*LSSQNWK KLL*GPYGTKKEPT*PRQS
5737	36105	A	5783	1	533	MGPEICTSDKLSDEADVTVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEEHSIKWKNI PSSWVG RISIMKTAILPKVYIRIKDDEWN IYRRYTEFRSLHHLQNKYPQV RAYNFPPKKAIGNKEAVLCHG R*HDCISRKPHRLSPKSP*ADKQ LQQSLRIQNQCAKITSILIYQ*QT NREP NHE*TPIHNCFKENKIPRN PTYKGCEGPLQGELQTTAQGN KRGTFHQMEEHSILMGRKNQY HENGHTAQGLHPDKRR

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5738	36106	A	5784	599	870	TPANQQHYRRMTLQLKENQTN RKRQQKQHQQKRPHKNPIQRS ATSKIKGDGSIQP*MLPWGQSP QKALTATAPEQRKDTPPVRGL SLQD
5739	36107	C	5785	1	1170	
5740	36108	A	5786	317	960	KWPYCPRQFIDSMPSYQRL SSQNWKLL*SSYGTKKEPTSP SQS*AKRTKLEASRYLTSNYTT RLQ*PKQHGTTGKTEI*INGTQQ SPQK*/QPHVYNYLIFNKPEKKK QWKGDSL FNK WDMDEVGNHH SQQTITRTGNQTPHFVTHRWE NNEITWTQGAGHHTPGPVVGL GAGRGIALREIPNANDELMVQQ TNMAHIYLCIKPARCADVP
5741	36109	A	5787	903	1050	LPPPLPAGLC**DQQQNSNAPLI H*EKERPPDDSYRIFLPRYHFHD DRI
5742	36110	A	5788	281	491	SFGYIPSNMGAGSNGISSRSLR NRHTDFHNG*TSLQSHQQCKSV PISPHPLQHLLFPDFLMIAITGV R
5743	36111	A	5789	1	381	
5744	36112	A	5790	1	3231	
5745	36113	A	5791	1312	1463	KGSATCSPPQANATTTTALQML GGIPWGNACGIFTRPPPQTYLN THLSTR*RPLLLLKCV*KGSA TCSPQANATTTTALQMLGGIP WGNACGIFTRPPPQTYLNTHLS TR
5746	36114	A	5792	811	1065	IS*VSFMSITH**WKKKEQQLLG CWLA*M*SMLICV*RERI*THKL E*LILCI*RMKKILEIQGMFKL LPY*TKRIMLK/TLNRQLNSTVS SLHSRVDSLEKSNTKLIEELAIA KNNIILQEENHQLRSENKLIL MKTQQHLEVTKVDVETELQTY KHSRQGLDEMYNEARRQLRDE SQLRQDVENELAVQVSMKHEI ELAMKLLLEKDIHEKQDTLIGLR QQLEEVKAINIEMYQKLQGS GLKEKKEIIVRLYWSALCG
5747	36115	A	5793	1	1353	
5748	36116	A	5794	78	503	TKELLHSCRNYHQSEQATYRM GENFCNLLI*QRANIQLQ*TQT NLQEKNKQPHQKVGEQYQQT LKRRHLCSQKTHEKMLIITGHQ GNTNQNHNHNEIPSHTS*NGDH*K VRKKQGHG*SWKPSFSANYRK DKKPNTSCSHSQ

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5749	36117	A	5795	2	200	YGLMIRTIPVDPTIRTTSVSLTV RLATMNP RSRPAPVDTAPGPP HLHKNQKSSQHSQYLDLTSYC
5750	36118	A	5796	76	195	
5751	36119	A	5797	1	2445	
5752	36120	A	5798	207	475	TNLQEK NKQPHQKVGKGYEQT LLKRKHSCSQQTYEKMLIITGH QRNANQNHNDIPSHSS*NNDH* KDRKQQMLERM*RNRNAFTLL VGV
5753	36121	B	5799	1	681	
5754	36122	A	5800	1	798	
5755	36123	C	5801	78	245	
5756	36124	A	5802	16	491	EPYPDRPREPKRDPEWSWGLW DKGGLVLSLGRTRTEAHTALS RLRASMWIDRSTRAVS VHF TLY NPPTQLFTSVSLRVEILPTGSLV PSSLVESFSIFRSDSALQYHML PQLVFLALSLIHL CVQLYRMMMD KGVLSYWRKPRNWLEVASLVS FSFEK
5757	36125	A	5803	3	2791	
5758	36126	A	5804	219	392	
5759	36127	A	5805	1	1044	
5760	36128	A	5806	1	360	
5761	36129	A	5807	1	528	
5762	36130	A	5808	127	360	
5763	36131	A	5809	1	421	GRRSRLAMRPLSMSYSFDLSDV TTPESTKNLVESSMVNGGLTSQ TKENGLSTSQQVPAQRKKLLR APTLAELDSSESEETLHKSTSS SSVSPSFP\EEPVL\EA VFTRKKP PKFLPISSTPQPERRQPPQRHSI EKETP
5764	36132	A	5810	328	1086	
5765	36133	A	5811	1	2076	
5766	36134	A	5812	1	450	
5767	36135	A	5813	901	1506	
5768	36136	C	5814	17	106	
5769	36137	A	5815	24	330	ARDQPI/PKKGTVGEFEPADNK CLLRATDGKKKISTVVSSKEVN KFQMAYSNLLRANMDGLKKR DKKNKTKKTKTSSSSSSSSSPA AATAATTAATTAATAAQ
5770	36138	A	5816	1	2247	
5771	36139	A	5817	1	339	
5772	36140	A	5818	3	463	
5773	36141	A	5819	3	83	
5774	36142	A	5820	1	642	
5775	36143	A	5821	2	583	
5776	36144	A	5822	193	409	

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5777	36145	A	5823	3	425	
5778	36146	A	5824	1	450	
5779	36147	B	5825	82	2096	
5780	36148	B	5826	1	1554	
5781	36149	A	5827	129	522	LCTDNIEITSKVHLHCSHHGAG LGTCSPCLCLSLPPPWAPVQPEP PR*APPPAPQRPVPSTIQGRKRL QLHS*SQ*DH/DAHAKVCSFTPE PARPRTHQKEETPNTSEHQKKQ TPDTPPLRTVTLTARLHGF
5782	36150	A	5828	1	541	
5783	36151	A	5829	1	714	
5784	36152	A	5830	188	287	KELPSGGHYNCRAPSSPHPAGS S*SGHQPNSSQ
5785	36153	A	5831	71	689	SPVLDDCPQGGLPSEESW/EQPV TRQYPLRPEVHKGLQNVKHLK APGLVRKCSSH CNTPI LGVQKP NGQWRLVQDLRLINEAVVPLY PVVPNPYTLLSQTPEEA EWF MV LDLKDAFFCIPLHSDSQFLFAFE DPTDHTSQITWMVLPQGFRDSP YLFGQALAQDLGHFSSRGTLVL QYADDLLFATSSEASCQQTLD LLNFLANQ
5786	36154	B	5832	45	1148	
5787	36155	C	5833	233	319	
5788	36156	C	5834	11	133	
5789	36157	A	5835	215	849	IKRLPLMKRMWL*LQPESLEIA GILVQ*MIE*QPKKGTNSIPVSK PSP/VVQKPNGQWRQVQDLRLI SDAVIPLYPAVSNPYTLLSQILE EAEWFTVLDLKDAFFCIPLRSD SQFLAFEDPTDHTSQTWTWTF TQGFMDTPHLFGQSLAQDLGH FSSPGTLVLQYVDDLLAKQQA TLDLLNFLANQGYKLSKLKAQ LCELLVFSSCARMHS
5790	36158	A	5836	1	449	MNKELGISSYKFCGMGRKTSVS AAKSVSATIPISRVQGLLQVLG QEVFLLLCQDQEEQAKREKRD QRKATALAMALRQTNLGGSER IENGAGQSPSRACYQCGLQGHF KKDYPTR/EPAAPCPLC*GNHW KMHCPRGQRSCDShLAITHL
5791	36159	A	5837	1	723	
5792	36160	A	5838	186	602	
5793	36161	A	5839	1	843	
5794	36162	B	5840	1	1779	
5795	36163	A	5841	1	1182	

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5796	36164	A	5842	23	302	LSQWKNRWTRTFLASLSVIANI LEPLLNLHVAVWLMPLN*S*V KKQVIM/FWNWWVLGLTDFKN EATDPRVCSWPCWLRSEAADL CGECYSS
5797	36165	B	5843	1	2622	
5798	36166	A	5844	279	1024	
5799	36167	A	5845	3	3619	
5800	36168	B	5846	1	1898	
5801	36169	A	5847	1	420	
5802	36170	A	5848	1	1632	
5803	36171	A	5849	1	597	KYLTKKTKAASVEAVKMLDEI LLQLSASVPVDVMPGEFDPNTY TLPQQPLHPCMFP/LATAYSTLQ LVTNPYQATIDGVRFLGTSGQN VSDIFRYSSMEDHLEILE*LRVR HISPTAPDTLGCYPFYFCGNTPS FGSKIIRGPEDQTVLLVTPDFS ATQTACLVNLR/LACQPISFSG FGAEDDDLGGGLGWAPDSKKW
5804	36172	A	5850	1	1490	RDAARRALNLLGLGEAVWTKQ VRSVAMFSEQAAQRAHTLLSP SANNATFARVPVATYTNSQPF RLGERSFSRQYAHYATRLIQM RPFLENRAQQHWGSGVGKKL CELQPEEKCCVVGTLFKAMPL QPSILREVSEHNLLQPFRSKY IHPDDELVLEDELQRIKLGKTID VSKLVTGTVLAVFGSVRDDGK FLVEDYCFADLAPQKPAPPLDT DRFVLLVSGGLGGGGGESLLG TQLLVDVVTGQLGDEGEQCSA AHVSRVILAGNLLSHSTQSRDSI NKAKYLTKKTKAASVEAVKM LDEILLQLSASVPVDVMPGE\FD PTNYTLPQQPLHP\CMFPLATA YSTLQLVTNPYQATIDGVRFLG TSGQNVSDIFRYSSMEDHLEILE WTLRVRHISPTAPDTLGCYPFY KTDPFIFPECPHYVFCGNTPSFG SKIIRGPEDQTVLLVTPDFSAT QTACLVNLRSLACQPISFSFG AEDDDLGGGLGLGP
5805	36173	B	5851	13	441	
5806	36174	A	5852	3	279	

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5807	36175	A	5853	23	841	EKAKEFRRAEKKKEVPAVPET LKKK*RNFAELKIKRLRKKFA QKMLQRARRKFIHEKAKH\YH KEYRQMYRT\ILMA\RMARKA GNFYVPAEPKLA\FVIRIRGINGV SPKVRK\VLQLLRLRQIFNGNLL *SSTKASINMLRDCRSHILAWG VPQILKSVNELIYKIRGYGKINK KRIA\LTDN\ALIARSLGK\YGIL LAWEDLIHEYTV\GKRFKEAN NFPVGPSNLSSPPRWK*KKKTT HFCKKVEDAGNREGRTSRNP YLEGMDLRCLP
5808	36176	C	5854	57	287	
5809	36177	A	5855	1	450	
5810	36178	A	5856	1	549	
5811	36179	A	5857	3	581	EQRKIPLVPENLLKKRKAYQAL KATQAKQALLAKKEQKKGKG LRFKRLESFLHDSWRQKRDV RLRRLEVKPHALELPDKHSLAF VVRIERIDGVSLLVQRTIARLRL KKIFSGVFVKVTPQNLMRLIV EPYVTWGFNPKSVRELILKRG QA\KVKNKTIPLTDNTVIEHLG ECYSLGVSWGRKPGSLKL

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5812	36180	A	5858	1	2652	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLYHVLTKNTTVTEQ NRNLLVETIRSITEILIWGDQND SSVDFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNILFENISHE TSLYYLLSNYYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHLDDLHLYLND ILIINCEFLNDVLTDDLNLRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNQ LQSGLHKCSSHLCGAQAAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVAAY HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSKGTTTV TKHQPPQAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSGIKTSGESEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNKENLLKKRKAYQ ALKATQAKQELLAKKEQKKGK GLRFKLLESFLHDYWQQKPKD
5813	36181	A	5859	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLGEVRQEETFSIS DSQISNTEFLQVVKVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVFLLSFISTANNSTHA LEYVLFRRPNRRYNQRISLAIPN
5814	36182	B	5860	1	843	

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5815	36183	A	5861	3	1260	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLGVEVRQEETFSISD SQISNTEFLQVIQIYNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIGWYRFRNTQQMSYR EQVLHKQLTRILGVPDLVLLF SFISTANNSTHALEYVLFRRNRR YNQRISLAIPNLGNTSQQEYKV SSVPNTSQSYAKVIKEHGTDFE DKDGVMKDIRAIYQVYNALQE KVQAVCADVEKSERVVESCQA EVNKLRRQITQRKNEKEQERRL QQAVLSRQMPSESLDPAFSPRM PSSGFAAEGRSTLGDAEASDPP PPYSDFHPNNQUESTLSHSRMER SVFMPRPQAVGSSNYASTSAGL KYPGSGADLPPQRAAGDSGE DSDDSDYENLIDPTEPSNSEYSH SKDSRPMAPDEDPNTQTSTQI
5816	36184	A	5862	1	742	
5817	36185	A	5863	1	3063	MSLEVDRSVETMCSGDEILLPD LPKADVADPLWGPFVQNCLS LARSDSREQGLVLMESNRNE VPPGVSYSKDGAKSLKGDVP ASEVTSKDSTFSQFSPISAECC GDDEKIKVDDPLTRTCNQASG SAPQQDYDKLKAFGGENSSTK GLSPSGNMEKNKVVKREAEAN SINLSVYEPFKVRKAEDKLKEN SDNVLENRVLDGKLSSEKNDT CLPGTAPSKTKSSSKLSSCSSAI MALSAKKAASDSCKEPV
5818	36186	A	5864	2	626	LCQHNRIKHKGIRKVYACSHCP DSRRTFTKRLMLEKHVQLMHS LKDPDLKE/TDRCHQ*GGNRNK RRH/LSSPVPSGSWKNQFSR/CA MCGFTTENLLQFHEHIPQHKSD SSSYQCQECGLWYTSHVLSLRH LFIVHKLKEPQPVSKQNGAGED NQQENKPSHEDESPNGTVSDRK CKVCVKTFETEAALNTHMRIH GMAFIKSKRMSSAKK

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5819	36187	A	5865	1	765	MQRDVYISHVRKEHGKQMKK QPCCQRDKPFSSSHSLCWHNRI KHKVIRKVYTCSHCSDSRGTFT KQLMLEKHVQLTHGIKDPDLK E/TDRRHQ*GGNRNKRPPQGPQ SQVEVERTGSGVQASQGAITQ PLKKLKINVFKVHKCARAIGFT TENLLQFHEHIPQHKSDGSSYQ CREHLFVVHKLKEPQPVSKQN GAGEDNQENKPSHEDESPNG AMSDRKCKVCAKTFETEAALN THMQTHGMAFIKSKRMSSDEK
5820	36188	A	5866	878	1095	AFFLDLTLYTQFSRC*SRAFPFA HPTAMACSSRR/LIRVQEQDAA QVTHQSFKDDL CVVLGDTLHH RFFLI FRH
5821	36189	A	5867	1	1137	
5822	36190	A	5868	1	1380	
5823	36191	A	5869	55	558	
5824	36192	A	5870	1	897	
5825	36193	A	5871	1	565	
5826	36194	B	5872	22	1696	
5827	36195	A	5873	295	522	
5828	36196	A	5874	3	3678	IPAPVSGRPPPGLLAEGKLSGPR PMCRTLGSHTAASAPARMWL FHTLLCIASLALLAAFNV DVAR PWLTPKGGAPFVLSSLLHQDPS TNQTWLLVTSRPTKRTGPLHR CSLVQDEILCHPVEHVPIPKGRH RGVTVVRSHHGVLCIQVLVRR PHSLSSELTGTCSLLGPDLRPQA QANFFDLENLLDPDARVDTGD CYSNKEGGGEDDVNTARQRR LEKEEEEDKEEEDEEEEEEAGT EIAIILDGSGSID
5829	36197	A	5875	1	3189	

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5830	36198	A	5876	1119	2463	LRAGGPGQGGKGAHPGRRVD ELLLGHPTAVGCAKGTDCPTPT PGGLWV*GVQEESDLPTAVDS SRPDIRDQAWASVHWELYVHG SSFINT*GERGAGY/AVITW/STV VEARSMPQGTSAQKAELIAFIR ALELSEALAKTVRQRCVSCRQ HHARQGPVPPGIQAYGAAPFE DLQVDFTEMPKCGDIRKIVTGD VNTPAILGVVSSPPSHIGNNITE DPELQPILAGLSLSMYLVTVLR NLLIILAVSSDPHLHTPMCFFLS NLCWADIGFTLATVPKMIVDM QSHTRVISYEGCLTRISFLVLFA CIEDMLLTVMAYDCFVAICRPL HYPVIVNPHLCVFLLVYFFLSL LDSQLHSWIVLQFTIKNVEISN FVCDPSQLLKLACSDSVINSIFM YFHSTMFGFLPISGILLSYKIVP SILRISSDGGKYKAFSTCGSHLA
5831	36199	B	5877	1	1830	
5832	36200	C	5878	109	245	
5833	36201	B	5879	1	801	
5834	36202	B	5880	171	288	
5835	36203	B	5881	49	502	
5836	36204	B	5882	1	639	
5837	36205	A	5883	1	821	MSGQFDLLWTPEEDNSDESD AEGEHGDGAEEEEAPPPVPRGP KPAGLGRRPCPYEQAQGGDGP EEQWMSFCWDIPRKSGAPRERI TLRRHLEDGCKVSKKKAQICR QQKDPQEESPAQFYERLCEAYG MYTPFDPDSPENQRMHMLV RQSAEDMRRKLQKQAGLAGM NPSQLLERASQVFVNRAV/TP* GKQQREWRERG*YDSQYRRGG TQPCDIVPNIRRERR*YHSQYRR RARPPGPH*SERGALRPGSLPRQ AA*RVPSGPADGQ
5838	36206	A	5884	1	1860	

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5839	36207	A	5885	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTILQG YSNQNSMPGPTPQ\PSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPPVDPSSAMM/SR RAHRSRGPDQRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQATQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
5840	36208	B	5886	1	2379	
5841	36209	B	5887	1	6741	
5842	36210	B	5888	165	928	
5843	36211	A	5889	56	2028	
5844	36212	B	5890	1335	3804	
5845	36213	A	5891	365	1573	
5846	36214	A	5892	1	1491	
5847	36215	A	5893	25	458	
5848	36216	A	5894	1	1194	MGGNAADKFRAGVELALQSG NKVCVCSPRTTISGDAVAPRSV LPGCRHIPGEISQSHHCWAGRS LSSRKRGSFLRRMGFIKVVKNK AYFKRYQVKFRRR\RKGK\TDY YARKR\LVIQDKNKYNTPKY\R MIV\RVTNRD\ICQMLYA\RRIE GDMIVCAA\YCTPNLPKIWV*RV GLTNYAAAY\CTGLLL\ARRLL NRFGMDKIYEGQVELTGDEYN VESIDGQPGAFTCYLDAGLAR\ TTTGNKVFGAPEGKLWMGGLS IPHSTK\RFPGYDSE\SKEFNAE VTSGKHIMGPKCLQNYM\RYL ME\ED\EDAYKK\QFS\QYIK\NS VT\PDMM\EEMYK\KAHAAIRE ESSSMEKKAQGGKFKKKRWNR PKMSLAQKKDRVAQKKASFL QSSRSGLLES\TPAIFP
5849	36217	A	5895	1	1191	
5850	36218	A	5896	21	159	PRSSVRPAGGFSSTCPPSWAAS RSCTTSHGCGHQ*CAGTGTQTR L
5851	36219	A	5897	1	1062	
5852	36220	A	5898	1	246	
5853	36221	A	5899	1	642	
5854	36222	A	5900	2	648	
5855	36223	A	5901	1	555	
5856	36224	B	5902	151	513	

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5857	36225	A	5903	1	2915	VSLAFCQPLSLSLSPLLPLASSL APERTHLPGPGSLLLSPPSFPAR PREPRGCVTAAPPDKMDTAE DICRVC RSEGTPEKPLYHPCVC TGSIKFIHQECLVQWLKHSRKE YCELCKHRFAFTPIYSPDMPSRL PIQDIFAGLVTSIGTAIRYWFHY TLVAFARWEVLLPACRIYKCL FLGSVSSLLTLPDMLSRKNLL ADCLQGC FVVVTCTLCAFISLV WLREQIVHGGAPIWLEHAAPPF NAAGHHQNEA
5858	36226	A	5904	3	907	
5859	36227	B	5905	102	406	
5860	36228	B	5906	1	5241	
5861	36229	A	5907	1	519	
5862	36230	A	5908	1	3067	TRDAAMAEAALEAVRSELREF PAAARELCVPLAVPYLDKPPTP LHFYRDWVCPNRPCHRNALQH WPALQKWSLPYFRATVGSTEV SVAVTPDGYADAVRGDRFMM PAERRLP LSFVLDVLEGRAQHP GVLYVQKQCSNLPSELPQLLPD LESHVPWASEALGKMPDAVNF WLGEAAVTS LHKDHYENLYC VVS GEKHFLFHPPSDRPFIPYEL YTPATYQLTEEGTFKVVDEEA MEKAEVSRTCLLTVRVLQA
5863	36231	A	5909	1	429	
5864	36232	A	5910	1	690	
5865	36233	A	5911	1	376	
5866	36234	A	5912	1	471	
5867	36235	A	5913	1	606	
5868	36236	A	5914	3	2756	SPGGRTPAARDSIVREVIQNSKE VLSLLQEKNP AFKPV LAIIQAG DDNLMQEINQNLAEEAGLNITH ICLPDSSEAEIIDEILKINEDTRV HGLALQISENLFSNKVLNALKP EKDVGVDINLGKLVRGDAH ECFVSPVAKAVIELLEKSGVNL DGKKILVVG AHGSLEAALQCLF QRKGSM TMSIQWKTRQLQSKL HEADIVVLGSPKPEEIPLTWQP GTTVLNCSHDFLSGKVGCGSPR IHFGGLIEED
5869	36237	A	5915	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG

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5870	36238	A	5916	1	334	
5871	36239	A	5917	88	870	MADVRLVAVKRVIDYAVKIR VKPDRTGVVTDGVKHSMPFC EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETIRRTALA\MGAI RGIHVE\PPAEAERF/GVPLQV ARVLGQAWQRRRLDLVLLGK Q\IACTDCNQ\TGQMTAGFLD WPQGTFA\SQVTLEGDKLKVER EIDGGLETLLRLKPAVVTADLR LNEPRYA\TLP\NIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
5872	36240	A	5918	1	774	
5873	36241	A	5919	1	1557	
5874	36242	A	5920	1	759	
5875	36243	A	5921	305	638	
5876	36244	A	5922	364	540	
5877	36245	A	5923	9	111	
5878	36246	A	5924	1	594	
5879	36247	A	5925	169	594	
5880	36248	A	5926	37	936	
5881	36249	B	5927	91	2043	

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5882	36250	A	5928	1	2298	MSRKGPRAEVCADCSAPDPGW ASISRGVLVCDECCSVHRSLSGR HISIVKHLRHSAPPTLLQMVB TLASNGANSIWEHSLDPAQVQ SGRRKANPQDKVHPIKSEFIRA KYQMLAFVHKLSCRD\DDGVT AKDL\SKAN*HSSVR\TGKPKW TCLRLLS\LGA\QANFFHPEKGT TPLHVAAKAGQTLQAE\LVVY GADPGSPDVNGRTPIDYAIRQA GHHELAERLVECAQYELTERLA FYLCGRKPDHKNHGYIIPQMAD SLDLSELAKAAKKKLQALSNRL FEELAMDVYDEVDRRENDV WLATQNHSTLVTERSAPFLPV NPEYSATRNQGRQKLARFNAR EFATLIIDILSEAKRRQGGKSLSS PTDNLELSLRSQSDLDQHDYD SVASDEDDQEPRLSTGATRSN RARSMDSSDLSDGAVTLQEYL ELKKALATSEAKVQQLMKVNS SLSDELRRLLQREIHKLQAE\nLQ LRQPPGPVPTPLPSERAETPM APGGSTHRRDRQAFSMYEPGS ALKPFGGPPGDELTTTLQPFHS TELEDDAIYSVHVPAGLYRIRK GVSASAVPFTPSSPLLSCSQEGS RHTSKLSRHGSGADSDYENTQS GDPLLGLEGKRFLELGKEEDFH PELESLDGDLDPGLPSTEDVILK TEQVTKNIQEILRAAQEFKHDS FVPCSEKIH\AVTEMASLFPKRP
5883	36251	A	5929	1	924	
5884	36252	A	5930	214	387	RRAFHPTPVT SARSTLHSFGQL RLPHSM*SGGTLLISMMQANQS LSLEFSKWTSFPLD
5885	36253	A	5931	1	1639	
5886	36254	A	5932	1	1098	
5887	36255	A	5933	1	546	NSSQVLQF*YLWVNEAPFRLLT MPQYPQINITADQLWGSVAVL V*MHNGLPGLCI*AWEKTTSG GEQYPSSSAIKQGPKEPYADFA RLQESLKKVIADLAAQDIVLWL LAFDNANPECQAALRPIRGKAH LVDYTKVCDGIRDKLHKATLL AQAMAGLRMGKGNTPFPGACF NCGKHGH

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5888	36256	A	5934	1	648	MGQVWGLVHFTLEVHTGDEE EQEYSEVTEDEVTEHVYLP KVAKEEEEAGIQQARQEGDLEA WQFPVRIHPPDQQENITATFEPF PFKLLKELKQAINQYGPSPFV MGLLKNVTVSSQMIPTDGDPLT RACLTPAQFLQFKTWWADEAS IQAARNAWAQPQINITADQLLG VGGWAGLDAQFVMQDDAIEQ LRGVCIRAREK\T*CGEQYPSF
5889	36257	A	5935	120	254	
5890	36258	C	5936	366	479	
5891	36259	A	5937	1	933	
5892	36260	A	5938	1	840	MGKVWGLVHSTLELFHTDVEE EGEYNEVTEEVTKHVYLP KAAKEGEVHPYHSAPPHYFFE ENDPPDLSFLEDTGTPRLAAAA TTKANAKQPLLLSPSMHR/PLP TRPLLAG\QATALPQGV*PLIAP PTRPHLEHCSTQ*RPQPAPTLGE ITPVTVPQAPLHPRAVQPW/HST PTRSWLQAVMPGIAPPSRSPW AVQLRILTYLGCLSTTPAAVQS LSQPPASVRQARVPQAPASSLC QEKPPSPPPVAPHGAAAAARPP SYHSSCASVAVVAANVLIG
5893	36261	A	5939	1	134	MGQVW*KSQSPKA*EPGVSCP RAGRREASVPRWYSS
5894	36262	A	5940	1	1158	
5895	36263	A	5941	1	673	MGIALGSPTTGPKAMKQNL SIG PAGILLPQPVMTPGCPAAAPPV APRCGYVLSEDAWGNLQGLCT GLSCGQPVAPWATDSGGAQDP VALLPPFSPRGLLGPSCMQRSQ VVKGGRQSEISSQNKKVIADLA AQDIVLQLLAFDNANPDCQAA LRPIRGKAHLVDFIKACDVIGGI PNLLLHPRGLRAITIAVFGKQIR TSGSNPLRSTFLSRRSISKNC SA EV
5896	36264	A	5942	1	1182	

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5897	36265	A	5943	1056	2128	TQPPTWGQIKKLSQMVEENLR KAGQLVTMNNLMVAMIVVITT TEEQEYSEVTEEVTEQVYLP AKVAKEGEVHPYPSAPPHYFFE EKEWPDPPDLSFLEDTRQKVVA PVTVRAAPRATVLSIQAGIQQ AR*EGDLEAWQFPVRIHPPDQQ GNIIVTFEPFPFKLFKEFKQAVN QYGPSPFVMGLLKNVAVSSW MIPTDWDALTRACLTQAQFLQF KTCAMKQGPPEPYVDFIARLQE SLKKMIADSAAQEIVLQLLAFD NAHPDCQAALRPIRGKAHLVD YVKACDGIGEYTPSTYEKKVN CKTASCRSFRRYPEEGIVITGDD SSMRVVVPEDLPVGQDVEVED RDIDDPDPV
5898	36266	A	5944	1	300	
5899	36267	A	5945	1	373	
5900	36268	A	5946	1	2976	
5901	36269	A	5947	287	544	
5902	36270	A	5948	831	4555	
5903	36271	C	5949	108	434	
5904	36272	C	5950	145	402	
5905	36273	A	5951	3	1104	GSRPGGHTLQSHRGRHAQGLR SPLLAPVCLGCGTWGQRRLFW SLKI*RLLCWF/CRRLQINCKNK PAIPRGPT/GPSEKSGLLLQDQG DTTNTTEENSKSLENIFGRVIKE NFQSLVRDLDI\QYKKHKEHPG NSSQKDHHLGTLSGYPKLRQR KES*ELSDRSTRKISQS/YNLYTP NTGAPRFIKQLLTDLRNEIDSNT IIVGYFSTPLTALDRSSRQKVND ETVDLNYTLEQMDLTEIYRTFH PTTTEYTFYSTVHGTFKIDHMI CHKMSLNEFKKTEIISSTLSDHS GIKLEINSKMNLQNHANTWKL NNLLLNEHWVKNEIKMEIEKFF KLNDSDNTTYQNLWDMKAV LRGKFIALNTYIKKMM
5906	36274	B	5952	1	2367	
5907	36275	A	5953	21	132	WREGARQCQEDPAEFLSD*DW ADPGPPHNAPGQNW
5908	36276	A	5954	1	1461	

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5909	36277	A	5955	31	802	SAWWNSRELLDPQSRSRSGFCF *EYPPTSGTEQESVSGNRALCSS LRMNGDQNSDVYAQEKQDFV QHFSQIVRVLTEDEMGHPEIGD AIARLKEVLEYNAIGGKYNRGL TVVVAFRELVEPRKQDADSLQ RAWTVGWCVELLQAFFLVAD DIMDSSLTRRGQICWYQKPGV GLDAINDANLLEACIYRLLKLY CREQPYYNLIELFLQSSYQIEI GADPGPPHSPPRAMWILSDSLK RGTNLLSSTRQLSTPSTFL
5910	36278	A	5956	1	532	RLNEAEQKYKDIQDKLQISET NARAPECMALKADVAKKRA YNEAEVLYNRSLNEYKALKKD DEQLCKRIEELKK/RVLTN/RLE PERLERQKKISWLKERVKAFQN QENSVNQEIEQFQQALEKDKEE HGKIKREKLDVKHALSYNQRL LKELKDSKTDRLKRFPGPNVPAL LEAIDD
5911	36279	A	5957	121	475	
5912	36280	A	5958	131	2891	
5913	36281	A	5959	131	3101	
5914	36282	A	5960	44	292	CQDYRWLLASSVLCWLY*KTQ QSDTEDLLCSAPTGPPEEDD GKS*PEKCRQMT*KKWSINCKC FFASSHNTTSLSIGLFLR
5915	36283	B	5961	26	239	
5916	36284	A	5962	131	3121	LVSFLLFQDALPEGDASPLGPY LLPSGAPERGSPGKEHPEERVV TAPPSSSQSAEVLGELVLDGTA PSAHHDPALSPLLPEEARPKHA LPPKKKLPKQVNSARKQLRP KATSAATVQRAGSQPASQGLD LLSSSTEKPGPPGDPPIVASEE ASEVPLWDRKESAVPTTPAPL QISPFTSQPYVAHTLPQRPEPGE PGPDMAQEAPQEDTSPMALMD KGENELTGSASEESQETTTSTIIT TTVITTEQAP
5917	36285	A	5963	1	1185	
5918	36286	A	5964	495	636	PSVVLIDINVSFNHWSAIFLTME\ PFCHRVRSHAMESR*GSVLP*N KPQ
5919	36287	A	5965	2	376	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5920	36288	A	5966	3	688	GTSAGDGCPHPTVLWPPDIMP PKKDVPVKKPAGPSISKPAAKP AAAGAPPAKTKAEPVVPQAPQ KTQEPPVDLSKVVIEFNKDQLE EFKEAFELFDRVGDGKILYSQC GDVMRALGQNPTNAEVLKVLG NPKSDEMNVKVLDFEHFLPML QTVAKNKDQGTIEDYVEGLRV FDKEGNGTVMGAIRHVLVTL GEKMTTEEEVEMLVAGHEDSNG CINYEELVRMVLNG
5921	36289	A	5967	54	540	AVYMCDLTENQTADLIPSTVEF KEA\FQLFDRDGDGKILYSQCG DVMRALGQNPTNAEVLKVLGN PKSDEMNVKVLDFEHFLPMLQ TVAKNKDQGTIEDYVEGLRVF DKEGNGTVMGAIRHVLVTLG\ EKMTE\EDVHMLVAGHEDSNG CINYEAFVRHILSG
5922	36290	A	5968	1	405	
5923	36291	A	5969	93	506	
5924	36292	B	5970	43	615	
5925	36293	A	5971	2	598	TRTSLHAALFSWDPVGTSLFTI SHLEVKKGMLVGIVGKVGCGK SSLLAAIAGELHRWEQVQCGG HTLH*APEQMLRGHVAVRGLS KGFGLATQEPWIQFATIRDNILF GKTFDAQLYKEVLEACALNDD LSILPAGDQTEVGEKGVTLSSG QRARIALARAVYQEKELYLLD DPLAAVDADVANPPACTGCNP
5926	36294	B	5972	137	371	
5927	36295	A	5973	1	1398	
5928	36296	A	5974	1	915	
5929	36297	A	5975	40	564	
5930	36298	A	5976	62	280	
5931	36299	A	5977	17	744	
5932	36300	A	5978	1	537	
5933	36301	A	5979	242	576	AANSLYKGSNSAALIILVGP*IS CLTHPVYMK*APS*TICLLYSM VILKALFFPQNINFILPVKSRHS
5934	36302	A	5980	924	3473	
5935	36303	A	5981	1	604	
5936	36304	A	5982	288	732	RNCIANYDFLILPTSF*WCSFFV LLFLFLSLSSLKLHSDLDKGE GTAKYTLSGDGAGPVFTIDETT GD\HAIRSLADREEKPFYTLR\A Q\AVDIETRKPLEPESEFNIKVQ DI\NDNEPKFWG WDLMVATGP QKWSPVG*VGQIKIL
5937	36305	A	5983	1	1510	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met bod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5938	36306	A	5984	1	603	
5939	36307	A	5985	250	505	GFSPTWQ*MNTHPSLMCFSPSR TTGSAAAN*RGQQKSGVPFWS* SHVKGKDQIPVPICPCTTAPVT MESTCIC*PTHVSCCKTLMV
5940	36308	A	5986	3	131	RVLVPDIRGAI*AVPKSPSIKSY ALPRALFLLPPYPDDLGI
5941	36309	A	5987	1	913	
5942	36310	A	5988	5	177	
5943	36311	A	5989	3	383	
5944	36312	A	5990	1	1323	
5945	36313	A	5991	342	594	
5946	36314	A	5992	1	321	
5947	36315	A	5993	3	601	
5948	36316	A	5994	1	1023	
5949	36317	A	5995	1	606	
5950	36318	A	5996	1	1536	
5951	36319	A	5997	2	1394	
5952	36320	A	5998	371	1045	
5953	36321	A	5999	3	360	
5954	36322	A	6000	1	636	
5955	36323	C	6001	1	861	
5956	36324	A	6002	1	711	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
5957	36325	A	6003	18	2446	AGSPPRADAAAGLWERGHLLS AAVAAMGKRDRADRDKKKSR KRHYEDEDDEEDAPGNDPQE AVPSAAGKQVDESGTKVDEYG AKDYRLQMPLKDDHTSRPLWV APDGHIFLEAFSPVYKYAQDFL VAIAEPVCRPTHVHEYKLTAYS LYAAVSVGLQTS DITEYLRKLS KTGVPDGIMQFIKLCTVSYGKV KLVLKHNRYFVESCHPDVIQHL LQDPVIRECLRNSEGEATELIT ETFTSKSAISKTAESSGGPSTSR VTDPQGKSDIPMDLDFDFYEQM DKDEEEEEETQTVSFEVKQEMI EELQKRCIHLEYPLLAEYDFRN DSVNP\ DINIDLKPTA\ LRPYQE KSLR\ KMFGNGRARSGVIVLPC GAGKSLVGVTAACTVRKRCLV LGNSAVSV\ EQWKAQFKMWSTI DDSQICRFTSDAKDKPIGCSVAI STYSMLGHHTTKRSWEAERVME WLKTQEWGLMILDEVHTIPAK MFRRVLTIVQAHCKLGLTATLV REDDKIVDLNFLIGPKLYEANW MELQNNGYIAKVQCAEVWCP MSPEFYREYVAIKTKKRILLYT MNPKNFRACQLIKFHERRNDK IIVFADNVFALKEYAIRLNKPYI YGPTSQGERMQILQNFKHNPKI NTIFISKVGDTSFDLPEANVLIQI SSHGGSRRQEAQRLGRVLRAK KGMVAEEYNAFFYSLVSQDTQ
5958	36326	A	6004	1	933	
5959	36327	A	6005	1	879	
5960	36328	A	6006	1	727	
5961	36329	A	6007	1	1509	
5962	36330	A	6008	1	1698	

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5963	36331	A	6009	2465	2751	VPTSSAPMPWPSRQWERSRT MTVISSSQLMALGP*RTAQVLA AAPA*LGASSAARGIDPQAGKT QK\ETDIATMQLCANKLDDKKDF FGKSDPFLVFYRSNEDGTFTICH KTEVVKNTLNPVWQPFSPVRA LCNGDYDRTVKIDVYDWDNRD GSHDFIGFTTSYRELSKAQNN FTVYEVNLNPRKKCKKKKYVNS GTVTLLSFSVDSEFTFVDYIKGG TQLNFTVAIDFTASNGETRMSE KVGGNPLQPTSLHYMSPYQLS AYAMALKAVGEIIQDYDSDKL FPAYGFGAKLPPEGRISHQFPLN NNDEDPNCAGIEGVLESYFQSL RTVQLYGPTYFAPVINQVASLP
5964	36332	A	6010	1	1059	
5965	36333	A	6011	255	405	
5966	36334	A	6012	251	1199	
5967	36335	A	6013	1	1791	
5968	36336	A	6014	335	984	
5969	36337	A	6015	1	127	LPLRLSYEIIYLYFTF*KPEHNKS HFLESHLIRNTRSALNTRK
5970	36338	A	6016	1	774	

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5971	36339	A	6017	186	2699	PRGAKPAVPAGPERPGPGGPC SPRPMVLPTCPMAEFALPRHSA VMERLRRRIELCRRHHSTCEAR YEA VSPERLELERQHTFALHQR CIQAKAKRAGKHRQPPAATAP APAAPAPRLDAADGPEHGRPA THLHDTVKNRNLDSATSPQNGD QQNGYGDLFPGHKKTRREAPL GVAISSNGLPPASPLGQSDKPSG ADALQSSGKHSGLDSLNNKKR LADSSLHLNNGSNPSESFPLSLN KELKQEPVEDLPCMITGTVGSI QSNLMPDLNLNEQEWKELIEEL NRSVPDEDMKDLFNEDFEEKK DPSSSGSATQTPLAQDINIKTEF SPA AFEQEQLGSPQVRAGSAGQ TFLGPSSAPVSTDSPSLGGSQTL FHTSGQPRADNPSPNMPASAQ AQNAQRALAGVVLPSSQGP GGA SELSSAHLQQAIAAKQKREQML QNPQATPAPAPGQMSTWQQT GPSHSSLDVPYPMEKPASPSSY KQDFTNSKL/PHDA*CE*EFPSA RRPLPPAQPCEPAESPATE*LES ELRE/YTRGLCWIRQYKTPFSL QSGLWARQPGVWPEQASPDGL SSPA A VPKSRAELPVSEAKA RKYAFPITGSTWPGAEPFQCPC ASPGYQCWDPAACRVRGQLPQ QLPLSQPATGRCNEAASVAFG PTETKGAAAKAFTATAVPSEAT APSRGTGEATVSAPSDPPTTPVP
5972	36340	A	6018	1	1062	
5973	36341	A	6019	3	566	ASRPPVTLRLVVPASQCGSLIG KGGCKIKEIRESTGAQVQVAGD MLPNSTERAITIAGIPQSIIECVK QICVVMLESPPKGV TIPYRKPSP SSPVIFAGGQAYTIQQQYAIQP DLTKLHQL\AMQQCHFPMT HG \NTGFQWALE\SFPEV\KGYW\ AGLDASAQTTSHELTIPNDLIGC IIGRQGAKIN
5974	36342	A	6020	2	531	TLRSSWQVVRTGTAQAATVRG FPPHPPR\ASASTLTLEGPPLEAY TIQQQYAIQPDLTKLHQL\AM QQSHFPMH/GDGIHSDYSAG\LD ASA\QTTSHELTISKRILIGLA*S GRSRAPKINGGSRQMSGAQ\IKI ANPV\EGSTD*GRFTITGSAASIS LAQYLINVRLSSETGGMGSS

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5975	36343	A	6021	181	1369	PLKVQLPRTLDDMDTGVIIEGGL NVTLTIRLLMHGKEVGSII\GKK GESVKKMREESGARI\NISEGNC PERI\TLAGTH*LPSFKAFAMI\I DKLGRRDISSSM\TNSTAAQLGP PVTCLKG\APAS\QCGSLIGKGG CKIKEIRESTGAQVQVAGDMLP N\STEAGHHYLLGIPQSI\ECV\K QILRGSCWETLFPSSPPKGV TIP\ YRPK\PSSSPV\IF\AGGPGQVPA QAATVRAFPPTPRPCGSTLTWE GPPLEAYTIQQQYAIQPD\LT L\HQLAMQQSHFPMTHGNTGF SG\IESSF\PEVKGYWAGL\DAS AQTTSHELTI\PNGFDWAGIIGA FKGAKIN\EIRQMSG AQIKIANP VE\GSTRQVTITGSAASISLAQ YLINVRLSSETG\GMGN
5976	36344	A	6022	1	690	
5977	36345	A	6023	1	399	
5978	36346	A	6024	3	397	
5979	36347	A	6025	3	249	
5980	36348	A	6026	177	477	
5981	36349	A	6027	49	451	
5982	36350	A	6028	1	1305	
5983	36351	A	6029	1	568	
5984	36352	A	6030	207	1053	PLTFGP ARWRETPPSLYKEFSG LFGSFFLSSAWGAHNLRALFLL LPSSRIQPTPWVFGDLKSPAGL QVLNDYLADKSYIEGYVPSQA\ DVAVFEAVSSPPPADLCHALR WYNHIKSYEK\EKASLPGVKKA LGKYGPADVEDTTGSGATDSK DDDDIDLFGSDDEE\ESKPKRL \REERLAQYESKKAKKPG\LVA KSSILLLVKP\WD\DETDMAKLE ECVRSIQADGLVWGSSKL\VPV GYGIKKLQIQCVVEDDKVGTD MLEEQITAFEDYVQSM DVAAF
5985	36353	A	6031	1	211	
5986	36354	A	6032	27	241	EVFGSWWQVPHEWLGSVLVV MSEFLFH*LM*ELVLKRV*CLS HLSLAPFLAM*YACSSSSPSTMI VSFFFF
5987	36355	A	6033	1	588	

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5988	36356	A	6034	279	1333	LIFCGCWL FASLTVM EAAHFFE GTEKLLEVWFSRQQPDANQGS GDLRTIPRSEWDILLKDVQCSII SVTKTDKQEAYVLSESSMFVSK RRFILKTCGTTLLKALVPLLKL ARDYSGFDSIQSFFYSRKNFMK PSHQGYPHRNFQEEIEFLNAIFP NGAGYCMGRMNSDCWLYLTL DFPEER\VISQPDQTLEILMSELD PAVMDQF*HEDG\VTAKDVTRE SGIRDLIPGSVIDATMF\NPCGYS \MNGMKS\DGTYWT\IHITPEPEF SYVSFETNLSQTSYDDLIRKVV EVFKPGKFVTTLFVNQSSKCR RLGLPQK\IEGFKR\LDCEGWF KDSNFFF\TSFAKKQQQQQS
5989	36357	A	6035	1	687	
5990	36358	A	6036	1	894	
5991	36359	B	6037	1	1458	
5992	36360	A	6038	1	1062	
5993	36361	A	6039	1	1218	
5994	36362	A	6040	277	3508	RSGRIAWAQEMDAAGRGCHLL PLPAARGPARAPAAAAAAS PPGPCSGAACAPSAAAGAGAM NPSSSAGEEKGATGSSSSGSG AGSCCLGAEGGADPRGAGSAA AAGAAALDEPAAAGQKEKDEA LEEKLRNLTRKQVSYRKAISR AGLQHLAPAHPLSLPVANGPA KEPRATLDWSENAVNGEHLWL ETNVSG\DLCYLGEENCQVRFA KSALRRKCAVCKIVV/HTTACIE ELEKINFRCKPTFREG\GS
5995	36363	A	6041	45	155	
5996	36364	A	6042	1	979	
5997	36365	A	6043	3	1042	
5998	36366	A	6044	2	401	
5999	36367	A	6045	1	5772	
6000	36368	A	6046	16	5678	VTSGRLLFYFRSMGPGCDLLLR TAATITAAAIMSDTSDSDSAG GGPFSLAGFLFGNINGAGQLEG ESVLDDECKKHLA GLGALGLG SLITELTANEELTGTDGALVND EGWVRSTEDAVDYS DINEVAE DESRRYQQTMGSLQPLCHSDY DEDDYDADCEDIDCKLMPPPPP PPGPMKKDKDQDSITGEKVDFS SSSDSESEMGPEATQAESEDG KLTLPLAGIMQH DATKLLPSVT ELFPEFRPGKVLRFLR
6001	36369	A	6047	1	354	

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6002	36370	A	6048	1	666	
6003	36371	A	6049	129	456	TYPVVGESSRRPERSRGVPGPD AAAESHFRPGRISNPLHRAGEQ GHARAEGSGVFRPHRGRGLRL LFVQAPDQVDAPVHG*VAPPAP GARDAQTCRSHECPTRPLDEV
6004	36372	A	6050	1	1095	
6005	36373	A	6051	171	619	
6006	36374	A	6052	1	621	
6007	36375	B	6053	1	181	
6008	36376	A	6054	1	905	
6009	36377	A	6055	1	855	
6010	36378	A	6056	2	244	
6011	36379	A	6057	3	829	LTDCLKDVDLIPPFNRMLLEV FGKLYAWTVQNILNVLMDSA KFKELGIQPVPLQTITSENPLGP SLGSIPQARFLLMMLSLTLQH SANNLDLLNSGTLALTQTALR LIVLPDVELLI*DHLL*MQTSIV* LPVLALLLAQHRSFGPSCDNVE EDMNASAQGASATVLEATRKE TAPVHLPVSGPELAATMKIGTR VMRGVDWKWGD/QEAEQTER NIHPTTMMFTSTINLLQTLCLPA RVHAEIMQSEATKTLGLLQIL VESGTTDKTRME
6012	36380	A	6058	133	5421	IFVFGCPGSPRLQMVENRYTES FFTQGNCRNNEKVTLVRIADLE NHNNDGGFWTVIDGKVYDIKD FQTQSLTENSILAQFAGEDPVV ALEAALQFEDTRESMHAFCVG QYLEPDQEGVTIPDLGSLSSPLI DTERNLGLLGLHASYLAMSTP LSPVEIECAKWVQSSIFSGGLQT SQIHRYRYNEEKDEDHCSSPGGT PASKSRLCSHRRALGDHSQAFL QAIADNNIQDHNVDFLCQIER YCRQCHLTTPIMF

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6013	36381	A	6059	1	2607	MMGHSSAIPLTATPGELKGQSP TKMPDPELGCGAKSQGCSR ARHQAARSMLPDQHLALAIL LELAVQRGTLSQLSAILLLLQ LWDSRAQETDNERSAQGTSTL LLSLLQTFQSIICSKDTPPSEGN MHLLSGPLSPSESFLRESFFTVQ NCRNNEEVTICKADLENHNK DGGFWIVIDEKVYDIKDFQTQS LTGNSILAQFAGENPVVALEAA FEFEVTRESMHAFVCGQYLEVR LYALSDAEDGRGTL*WLQSSIF SG/GLQTSQIHYSYNEEKDEDH CS/SPVGTTPASKSR\CSHRWALG DHSQAFLQAIADNNIQDHNVKT HQQGRSYKEVCTPVIERLRFL SNELRPAVGNDLSIIEFKLLSSL PRWRIAQKIIRERRKKRIPKKP ESTADEEKIGNEESDLEEACILP HSPINVDKRPIAIKSPKTITSEN LGPSLGSIPQARFLMMLSMILT LQHSANNLDLLNSGTLALTQT ALRLIGPSCDNVEEDMNASAQ GVSATVLEATRKETAPVHLPVS GPELAATMKIGTRVMRGVDW KWGDQDGPPLGRVIGELGE DGWIRVQWGTGSTNSYRMGK EGKYDLKLAELPAAQPSAEDS DTEDDSASPRLVYREQHRSW CMLGFVRSIALTPQVCGALSSP QWITLLMKVMKGHAPFPAASL QRQRWVAVSLPHALVKSGTVP
6014	36382	A	6060	1	7297	
6015	36383	A	6061	32	259	SLRVTPGGRNVSEKKDRKKTG R/PPELERKSHTERLYLEEGSAE PA*VGRRAPESVNDRGGAIQRA QRGQPAPPLPR
6016	36384	A	6062	3	437	
6017	36385	A	6063	1	425	MTELPTLWKPLKNSPMFRVIAR AFCVTFILVSTHQEMLTITSEN LGPSLGSIPQARFLMMLSMILT LQHSANNLDLLNSGTLALTQT ALRLIGGTPVELPAELAAPAFR AAAA/VDKNPRRRGQKVAVAK SGGDRGKKS

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6018	36386	A	6064	2	14566	RRGGRALRVRPETWEEAGEKM PSEFCLAAQARLDSKWLKTDI QLAFTRDGLCGLWNEMVKDG EIVYTGTESTQNGELPPRKDDS VEPSGTTKEDLNDKEKKDEEET PAPIYRAKSILDSVWVGKQPDV NELKECLSVLVKEQQALAVQS ATTTLSALRLKQRLVILERYFIA LNRTVFQENVKVKWKSSGISLP PVDKKSSRPAGKGVEGLARVG SRAALSFAFAFLRRAWRSGEDA DLCSELLQESLDALRAL
6019	36387	B	6065	75	581	
6020	36388	A	6066	517	5495	ESFFTGQNCRNNEKVTFVRIAD LENHNNDGGFWTVIDGKVYDI KDFQTQSLTENSILAQFAGEDP VVALEAALQFEDTRESMHAF VGQYLEPDQEGVTIPDLGSLSSP LIDTERNLGLLLGLHASYLAMS TPLSPVEIECAKWLQSSIFSGGL QTSQIHYSYEEKDEDHCSSPG GTPASKSRLCSHRRALGDHSQA FLQAIADNNIQDHNVKDFLCQI ERYCRQCHLTTPIMFPPEHPVEE VGRLLLCCLLKH
6021	36389	A	6067	1	1851	
6022	36390	A	6068	53	423	YHLTLLIHGTVSATRPGHCSP GKLPSWVPISLQCTPSSPECRSV *RQL*HGHMHELLYIITKADSVI TASCLISRSEWWDGGTVSLV QRFVDYGSSQCQRPHRTGCASS SAPQRASSVAPG
6023	36391	A	6069	1	49	EWSGTRTWWRPWSCRT*CRT
6024	36392	A	6070	1	726	
6025	36393	A	6071	368	485	
6026	36394	A	6073	1	414	
6027	36395	A	6074	3	535	RRREFPAKERESASMSSPEE*P/ DMAKGAPPSQPPNSVPAD/CS RSVRLSSSNFEESLRPTEDDEGQ EGQDSMSRAKANWLRAFNV RMQLQEARGEEMSKSLWFKG GPGGGLIIDSMPDIRKRKIPLV SDLAMSLVQSRKAITSALASS TLNNEELKNHVYKKTQLALIYP ISC
6028	36396	A	6075	1	222	
6029	36397	A	6076	2	284	NGIPDFSNTTLRLGLQMPGARG PCCGSQRHINLLMGTGVFLVK MKA/NEFFFLDSETRLCIAPEG WREQPQKTSMTFTFLRIKFF VSHYGLL

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6030	36398	A	6077	91	749	
6031	36399	C	6078	1	380	
6032	36400	A	6079	1	877	MPRPD LAPALLVAVLVLLYLL VSAAAPAPSSDSTPENVC PVET TTNFIWELSSPHNTSAVLLVVF HKGPSPKFEVKLKKNANGLGFS FVQMEKESCSHLKSDLVRIKRL FPGHPAEENGAIAAGDIILAVN GSPRKASSSRCRGSWAMQLSV QAGPSFASYYPAAVEVLHLLRG APQEV TLLLCRPPPGALPELEQE WQGQKYKCAWAI VNEAEVEE VVEVAGTVEFFGDQGA*CHHP ACSGKPLGWHGGLSRKCPRLFF RGATRV TGAQGLKEVKQQSFR SNMMWLGLRL
6033	36401	A	6080	1	1683	
6034	36402	B	6081	66	1214	
6035	36403	A	6082	1	5694	
6036	36404	A	6083	3	483	SSLTSSMEDPAAPGTGGPPANG NGN\GGGKGKQAAPKGREAFR SQRRESEGSVDCPTLEFEYGDA DGHAAELSELYSYTENLEFTNN RRCFEEDFKTQVQGKEWLELE EDAQKAYIMGLLDRLEVVSRE RRLKAARAVLYLAQGTFGCED SEVDVLHWSRY
6037	36405	A	6084	1	2646	
6038	36406	A	6085	115	1289	FSPLEPRLCSLGGWGALQAGEP CQPSRAGCGREGATMGCTLSA EERAALERSKAIEKNLKEDGIS AAKDVKLLLLGAGESGKSTIVK QMKIIH\EDGFSGEDVKQYKPV V\YSNTIQSL\AAIVRAMDTLGIE YGDKERKADAKMVCDVVSRM EDTEPFSAE LLSAMMRLWGDS GIQECFNRSREYQLNDSAKYYL DSLDRIGAADYQPT EQDILRTR VKTTGIVETHFTFKNLHFRLFD VGGQRSERKKWIHC FEDVTAII FCVALSGYDQVLHEDETTNRM HESLMLFDSICNNKFFIDTSIILF LNKKDLFGEKIKKSPLTICFPEY TGPNTYEDAAA YIQAQFESKNR SPNKEIYCHMTCATDTNNIQVV FDAVTDIIIANNLRGCGLY
6039	36407	A	6086	1	1053	

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6040	36408	A	6087	2	377	IYDGFDFGFAKGQIKEIGWTDVG GWTGQGGGSILGTRVLP GK/Y MEEIATQMRTHSINALLIIGGFE AYLGLELSVFVTLKLFYQHFM HVLLTLIPNRRVPICPTSPSACC LWSVSHAFRCAYEQN
6041	36409	A	6088	1	591	
6042	36410	A	6089	1	2391	PGRAAPLGLLAMDDADD SRAPK GSLRKFLHLSGAGKAIGVLT GGDAQGMNAAVRAVVRMGY VGAKVYFIYEGYQGMVDGGSN IAEADWESVSSILQVGGTHGSA RCQAFRTREGRLKAACNLLQR GITNLCVIGGDGSLTGANLFRK EWSGLLEELARNQGIDKEAVQ KYAYLNVVGMVGSIDNDFCGT DMTIGTDSALHRIIEVVDAIMTT AQSHQRTFVLEVMGRHCGYLA LVSALACGADWVFLPESPPEEG WEEQMCVKLSENRRARKRLNII IVAEGAIDTQNKPTSEKIKELV VTQLGYDTRVTILGHVQRGGTP SAFDRILASRMGVEAVIALLEA TPDTPACVVSLNGNHAVRLPL MECVQMTQDVQKAMDERRFQ DAVRLRGRSFAGNLNTYKRLAI KLPDDQIPKTNCNVAVINVGAP AAGMNAAVRSAVRVGIADGH RMLAIYDGFDFGFAKGQIKEIGW TDVGGWTGQGGGSILGTRVLP GKYLEEIATQMRTHSINALLIIG GFVEAYLGLELSAAREKHEEFC VPMVMVPATVSNNVPGSDFSIG ADTALNTITDTCDRJKQSASGT KRRVFIIETMGGYCGYLANMG GLAAGADAAYIFEEPFDIRDLQ SNVEHLTEKMKTTIQRGLVLRN ESCSENYTTDFIYQLYSEEGKG VFDCRKNVLGHMQGGAPSPF
6043	36411	A	6090	1	459	

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6044	36412	A	6091	1930	5781	RAKSPANIIMTGSNSHITILTIN VNGLSPIKRRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSLDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
6045	36413	A	6092	1	3654	
6046	36414	A	6093	1	5127	
6047	36415	A	6094	1	3663	
6048	36416	A	6095	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
6049	36417	A	6096	1	5073	
6050	36418	A	6097	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
6051	36419	A	6098	1	3235	

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6052	36420	A	6099	1	3070	MATLIPLLFHKHPHLLTQRYQFN VRGGCPTSTSAIATLDPRTAVFP LMSVFQTSAPWPFWGFTHTQP VPQPLKVKIHSSADTAADIQAN RVWSGPPANSKRPAEEGKLT NRKDIHTKNPSVRHHHQRPKV DKTTKTGKKQRRKTGNSKKQS ACPPPKERSSTATEQSWTEND FDKLREGFRRSNYSKLQDEIQT KGKEVENLEKSLDECITRITNTE KGLKKLENYVKNEETSGANAI NWKKGINKIDRPLARL
6053	36421	A	6100	1	3297	
6054	36422	A	6101	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPTGAIE GAINSLPTKKSPGPDGFTAEFY QRYKEELVPFLKLQFSIEKEEI LPNSFYEASIIIPKGRDITKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITSILSQKNK AGGITLPDFKLYYKATVTKTA WICYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKSGNN
6055	36423	A	6102	1	3417	

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6056	36424	A	6103	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAPIPKAQV SSTEKLNRNCIDDLKPPFALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSEDQGPTREVI AQLLEDALQVESQEPEQAFV KPHLVSEYDIYGFRTVPEDDEE EKLVAKVRALDLK
6057	36425	A	6104	1	4371	
6058	36426	A	6105	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNDKT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKA VCRGK FIPLNAHKKRQERSKIDTLTSQ KELEKQEQT HSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTETIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPI TGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFQSIEKE GILPNSFYEASIIIPKPGRD TTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDAEKAFDKIQQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWKNI CSWVGRINIVKMAILPKNITL QLLLVLPELSTLIPLWLPALAGQ
6059	36427	A	6106	1	4449	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6060	36428	A	6107	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLL NDYWVHNEMNAEIKMFFETNE NKDDTYQNLWDAFKAVCRGK FIALNAHKRKQERSKIDTLTSQ LELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKREKNQI DTIKNDKGDIT
6061	36429	A	6108	1	3297	
6062	36430	B	6109	112	3300	
6063	36431	A	6110	3	3316	
6064	36432	A	6111	1	3457	
6065	36433	A	6112	1	3170	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLELEKQEQRHSPSRQE ITKMRAELKEIETQ
6066	36434	B	6113	1	4753	
6067	36435	B	6114	1	3384	
6068	36436	A	6115	1	3345	
6069	36437	A	6116	1	3780	
6070	36438	A	6117	1	3720	
6071	36439	A	6118	1	3894	
6072	36440	A	6119	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDDTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEIETQ
6073	36441	A	6120	1	3780	
6074	36442	A	6121	1	3852	
6075	36443	A	6122	1	3345	
6076	36444	B	6123	1	6136	
6077	36445	B	6124	1	3924	

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6078	36446	B	6125	295	4185	
6079	36447	A	6126	1	405	
6080	36448	A	6127	1	1059	
6081	36449	A	6128	2	518	EKATCDENDSVSNIA TEIKEGQ QSV\HVSPQKQSAWKVIFKKKV SLLNIATRITGGGKSGTVSSQKQ PPSKATSDKTDSALNIA TEIKDG LQCGTVSSQKQPALKATTDEED SVSNIA TEIKDGEKSGTVSSQKQ PALKATTDEKDSVSNIA TEIKD GEKSVTVSSQKQPASK
6082	36450	A	6129	1	843	
6083	36451	A	6130	1	432	
6084	36452	A	6131	2	835	CGSAQAAAAAAAAEEATEKIPAL RP/ASAVGAAGALAVLRDPR WREAGSKS/PETPFS* CQGA/HG GGQFCPSGTA FPGKMKVMMR KRKKKGQCLPGICRSLKRRKSP RSPGM/IGYSTLSIPPEMLASYQ SYSSTFHSLEEQQVCMA/G*HR QMPGADKPVRACQRLAGVW AGFTMRHQSRLY*ECSCGVIFR HRCVAHLLGRAIGAGLFVITPA GERGMCCKA IKLG NARVFPVT TL*NDGQCQACMHAG/TTLED GKNYISSPSSSSSSSPSPRVPS
6085	36453	C	6133	278	446	
6086	36454	A	6134	1	1152	
6087	36455	A	6135	1	639	
6088	36456	A	6136	12	1436	
6089	36457	A	6137	367	1056	
6090	36458	A	6139	1	4263	
6091	36459	A	6140	1	1311	
6092	36460	A	6141	1093	1358	MQKKPLTKFNNPSC*KLSIN*V LMGRISK*VTTTATTTTITTTTT TTTTTTTTTATTTTTTTTTTTT TTTTTTMGPTLPLIPIGLGS
6093	36461	A	6142	1	699	
6094	36462	A	6143	1	489	

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6095	36463	A	6144	5	916	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQNYTPPGLLGLPDHRF
6096	36464	A	6145	5	756	
6097	36465	A	6146	1	471	
6098	36466	A	6147	184	1097	ALGGTPMLGKLAMLLWVQQA LLALLLPTLLAQGEARRSRNTT RPALLRLSDYLLTNYRKGVPRV RDWRKPTTVSIDVIVYAILNVD EKNQVLTTYIWYRQYWTDEFL QWNPEDFDNITKLSIPTDSIWVP DILINEFVDVGKSPNIPYVYIRH QGEVQNYKPLQVVTACSLDIY NFPFDVQNCSTFTSWLHT/SPG HQHLFVALARKGEIRQECLHEP GRVGVAGGAALLSGVQHGKQ* LLCRNEVLCGHPPAAPLLCGQP ATAQHLPHGHHGRGLLPAPQQ WREGLFQDYTPPGLLGLPDHRF
6099	36467	A	6148	3	672	
6100	36468	A	6149	3	398	LRKIKIDLGKFSNPDGYIDVLQ GLRQSFDLTWRDIMLLDQSLT PNEKSAAKTAAREFGDLWFV/S FQN*SCKTTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYAPIQQEA V
6101	36469	A	6150	1	420	

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6102	36470	A	6151	1	878	TLLPPRPGVGSDYPNIPGCPMW GNKDPGEGTLERGKVEDASQR TSRTLKETSGKAEHRKKQDGK CSPQGKNALKMYSGEFDPVRV CVPFSLSDLKQLKIDLGRFSDNP DGYIDVLQQLGQSFDTLWRDI MLLLDQTLTPNERNATITAARE FGDLWCLSQVNDRMTEERER FPTGQQA VPSADPH*DTSEHG DWCCRHLLTCVLEGLRKTRKK AVNFSVMSTVTQGKEENPTAFL ERLREALRKHTSLSPDSIEGQLI LKIKFITRSAADIRKQTSKVHLR PGAKLKTPY
6103	36471	A	6152	1	417	
6104	36472	A	6153	1	415	
6105	36473	A	6154	1	234	
6106	36474	A	6155	1	335	TCPIVPG/QEMIIEISKGRSGLGL SIV*GKDTPLNAIVIEHYEEGA AAVDGRLWAGDQILEVNGVDL RNSHEEAITALMQTPQKVRLV VYRDEAHYRDEENLEIFPVDLQ
6107	36475	A	6156	109	4687	
6108	36476	A	6157	109	4991	
6109	36477	A	6158	3	862	
6110	36478	A	6159	1	1857	
6111	36479	A	6160	3	100	
6112	36480	A	6161	1	537	
6113	36481	A	6162	125	1184	
6114	36482	A	6163	875	1506	LSIYLVLTQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDVWVSLWQ APIGESQQRPLGFWKALPSSA/ DHKACHAQHSHKWKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6115	36483	A	6164	1	1566	
6116	36484	A	6165	1	1098	
6117	36485	A	6166	1	538	
6118	36486	A	6167	410	625	LTLVPFSFSVVLTPLPKGNITIRY *TGIL*GWNLSWKGLGFSVTA QPSSGTPRTALGSRTTKPLLVS LQV

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6119	36487	A	6168	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNDQT FQGLLDTGSELTLPKDPKRHC GPPVKIGAYGGQINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTGDSW RMTVDYL
6120	36488	A	6169	203	850	DVEHVGMRRRWRRRVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LPKDPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDAVGPWTHP VV/I/SPVPECIIGIDILSSWQ/NSH IGSLTVHLSSDPKGCHSEWGPE QEKALQEVQAAVQAALILEPY DPAGPVVLEVSLADRDVWVSL WQAPIGESQQRPLGFWSKALPS
6121	36489	A	6170	1	864	
6122	36490	A	6171	1	205	VPDFPAKPIQGPHFNSRYL/REA VHGEAVHAPFIAGQPLT**ELM SIFPQFQFFLYRRLDSHSGQSWQ I
6123	36491	A	6172	1	3039	
6124	36492	A	6173	1	1364	MIISIDA EKAFDKIQPFMLKTL SKLEETASPSV VATYTPQPM L PSAFPPLSEEINPVL PETVMAS PEAVTRQDNVDS PQKPPPTPMF ASRPITRLKPRRAPSEEG IRLK KIGMVEWISHFRPTPLSMEGPE HILLTN TLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPELIIGIDILSSWQNPHIGSL NGRGYINSLALCHNLIRRD LDR FLLPQDITLVHYIDHIMRLDSVK DKWLHLAPPTTKKEAQCLVGL/ FGFWRQHISLWRQPLACYWAL VETEHLTMGHQVTMQPELPIM NWLLSDPSSYKPAPMASWGVP YQQLTEEEKTRA WFTDGSARY TETTRKWTAVAIQPLSRTSLKD SNEGKSSHQQA KNGITVLAGVI DPDYQDEISL/LTPQWRCHPGSS VWRASSLGISHPP
6125	36493	A	6174	114	1996	

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6126	36494	A	6175	1	475	MGRNQNRKAENSKNWNASSPP KEHNSSPAREQNWREDEFNELT EVGFRRSVITNFSDLKEHVLTH CKEAKILEKRLDKWLTKITSVE KS/CK*PDG/D*KPQYENFMKHT QASIADLIKRRKKRYQ*LKIKLM K*SKKTR*EKKKYKLPSENTTN TSMQIY
6127	36495	A	6176	179	393	NKRGYKQMEEHSMMLMDKKNQ YYENGHTAQQN*AGEGNGKGS IRKTGSQIVPLCR*HDCISRKPD CLSPKSP
6128	36496	A	6177	1	710	MARELRDECTSFSSQFHQLEER VSVIEDQMNMKQEEKFREKGI KRSEQLQEIWDMERPNNLCI GVPESDGENGIKLEDTLQDIIQK DFPNLGRQANIQEIQRMPQR YSSRRATPRHIIVRFTKEIQTIR EYYKHLIYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPTGS EIEAIIINSLPTKKSPRDPGFTA YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASHILPKLGRDITK KENFRPISLMNIDAKILNKILAN QMQQNIKNLIRHDQAGFIPGMQ CWFNIRKSINVIQHINRTKDN HMIISIDAEKAFYKIQPFILKTL NKLENKIPRNPTYKGCEGPLFK ENYKMLMLKEIKEDTSKWKNIP WSWIGRINIVKMAILPKVIYRLS APIKLPMIFFTELEKTTLKFIWN QKRACIAKSILSQKNKAGGIML PDFKLYYKATVTKAAWYWYQ NRDIDQWNRTEPSETIPHIYSHL IFDKPDKNKKWKGDFLFNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMCKTPKAM VTKAKIDKWDLIKLSFCTAKE TTVRVNRQPTWEKIFAIYSSD KRLISRIYKELKL*PCSIV*SQVA *CLQLCSFGLGLTWQCRLFFGSI
6129	36497	A	6178	464	724	IGEVLLDNILQRVFQLGSILPITF RYTNQT*IWSWTLFWLVSY
6130	36498	A	6179	1	2022	
6131	36499	A	6180	1	882	
6132	36500	C	6181	1	1935	
6133	36501	A	6182	1	672	
6134	36502	B	6183	140	2195	
6135	36503	A	6184	26	354	

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6136	36504	A	6185	86	747	SLEDAMSLKDDDSGDHQQNEE NSTQKDGEKEKTERDKNQSSS KRKAVVPGPAEHPLQYNYTFW YSRRTPGRPSTSSQSYEQNIKQIG TFAS\VEQFWRFYSHMVRPGDL TGHSDFHFLKEGKIPMWEDDA NKNQ\GKWIIRLARKFGSRC\W ENLILAMLGEQF\MVGEEICGG CGVCPAFQEDIIS\IWNKTASDQ ATTARIRDTLARRVL\NLPANTI MEYKN
6137	36505	A	6186	23	127	
6138	36506	A	6187	2	419	
6139	36507	A	6188	1	714	
6140	36508	A	6189	19	373	AVFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFF\SSSSSSFFFSFLL FFFFKLKELRLVI*PLNPEN*ESC PLFSPVNLDMPT*TFKDKRWKV NWARSTSRQQLLESARTKSWA EREGGTRWRAW
6141	36509	A	6190	227	420	KNFLPNCsAKELFFFFFFFFFLL LLLLLLLYFKF/MI*WFKHLAF PLLAFILSPTAL*RGVFHH
6142	36510	A	6191	400	582	
6143	36511	A	6192	1202	1678	
6144	36512	A	6193	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAFACL
6145	36513	A	6194	110	377	QWISRQKPYKPEKRGDQYSTFL *EC*ILVPPLFWLVGFLPRDPLL V*WAYGCP*HFFLHFNLGESNN YVSWGCS
6146	36514	A	6195	1	381	
6147	36515	A	6196	1	759	
6148	36516	A	6197	1	609	
6149	36517	A	6198	2	1178	
6150	36518	B	6199	159	290	
6151	36519	A	6200	716	1001	SMPASTHLILVGSCSWKMVIVL PLVTHFLFTALTVPWNLPWVEL YWNM*TM*LRSMKESLMATIF TLPELKA\VLHEKLQ*LQSTEDL *HGLLG
6152	36520	A	6201	5772	5971	TANIIMTGSNSHITILTLNVNRL NARIKRHRENCIKSQDPVCCI *ETHLMCRDITYRLKIKGWSN
6153	36521	A	6202	1	974	
6154	36522	A	6203	1	600	

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6155	36523	A	6204	51	424	MAPKQDPKPKFQEGERVLCFH GPLLYEAKRVKVAIKD/ITREI/H SYITVVGKIGMNGFRRAKYSN TWTPICRNSENFKKPKSKFVL*T EY*GEMPVD*FWTWNEQWRSC WLPCLYNDTSDLSAGV
6156	36524	A	6205	1	3827	MQKAIRLNDGHVAPLGLLARK DGTRKGYLSKRSSDNTKWQTK W FALLQNLLFYFESDSSSRPSG LYLLEGVCVDRAPSPKPALSAK EPLEKQHYFTVNF SHENQKALE LRTEDAKDCDEWVAIAHASY RTLATEHEALMQKYLHLLQIVE TEKTVAKQLRQQIEDGEIEIERL KAEITSLLKDNERIQSTQTVAPN DEDSDIKKIKKVQSFLRGWLCR RKWKTIQDYIRSPHADSMRKR NQVVFMSMLEAEA EY
6157	36525	A	6206	1	900	
6158	36526	C	6207	172	501	
6159	36527	A	6208	499	848	KIRVPAAVAGLSPPLGPWSLRS PSQPERCCPWRNSSWWTAPRTS IITAAGVSPARLSSISCTTRGS WVKTPTPTRARMVIASSNLERP SALS RM*PTSQSMTRKRWWRL WPSTTL
6160	36528	A	6209	3	495	SCAQTFPKLDTFLEHIKSHQEEL SYRCHLCGKDFPSLYDLGVHQ YSHSLLPQHSPKKDNA/CLQVF PCERYLRRHLPTHGSGGRFKCQ VCKKFFRREHYLKLHAHIHSGE KPYKCSVCESAFNRKDKLKRH MLIQYDEV RQGLGMVPGTQKV LNKCFCHNVKKKK
6161	36529	A	6210	667	2142	
6162	36530	A	6211	1	396	
6163	36531	A	6212	213	446	
6164	36532	A	6213	101	580	VAGVGSLPRSMEDDAPVIYGLE FQARA\LPQTAETDAIRFLVG TQSLKYDNQIHIIDFDDENNIIN KNVLLHQS/AGEIWHISASPADR GVLTTTCYNRTSDSKVLTCAAV WRMPKELESGSHESPDDSSSTA QTL\ELLCHLDNTAHGNMACV VWEPMGDG
6165	36533	A	6214	1	933	

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6166	36534	A	6215	3	404	RLKEKKLVKEVIAVSCGPAQCQ ETIRTALAMGADRGIHVEVPPA EAERLGPLQVARV/AVVTADLR LNEPCYATLPNIMKAKKKKIEV IKPGDLGVDLTSKLSVISVEDPP QRTAGVKVETTEDLVAKLKEIG
6167	36535	A	6216	1	408	
6168	36536	A	6217	88	871	MADVRLVAVKRVIDYAVKIR VKPDRTGVTGDKHSMNPFC EIAVEEAVRLKEKKLVKEVIAV SCGPAQCQETIRTALAMGA\D RGIHVE\VPPEAERF/GVPLQV ARVLGQLAKK\EKVDLVLLGK QA\IACTDCNQ\TGQMTAGFLD WPQGTFAVSVTLEGDKLKVER EIDGGLETLRKLPAVVTADLR LNEPRYA\TLPNIMKAKKKKIE VIKPGDLGVDLTSKLSVISVEDP PQRTAGVKVETTEDLVAKLKEI
6169	36537	A	6218	1	1023	
6170	36538	A	6219	110	842	
6171	36539	A	6220	1	122	
6172	36540	A	6222	1	1257	MNDATAVQEGSQMYSWQKLT PTGPFIMQPEGMGRLFAINKMA EGPFPEHYEPIETPLGTNPLHPN VVSNPVVRLEYEQDALRMGKKE QFPYVGTTYRLTEHFHTWTKH ALLNAIAQPEQFVEISETLAAAK GINNGDRVTVSSKRGFIRAVAV VTRRLKPLNVNGQQVETVGIPI HWGFEGVARKGYIANTLTPNV GDANSQTPEYKAFL/GQHREGV RN*LHHAAFSGA*LQCFQYAH NSRKNN
6173	36541	A	6223	737	941	WLRMMEHRI LFPLWKRESKKA HYVQSSVLLCLGMLR*KYKGGK KGKKERKKKDEKRGNGKKRI KIHSI
6174	36542	A	6224	1	1072	
6175	36543	A	6225	1	585	
6176	36544	A	6226	1	930	
6177	36545	A	6227	28	392	AGEVPLQLPPAAVCSACLQRPA LWWNSSFFL*SCLHALFH*VDL QSLIAFLLLD*SSY*YLCMLHEV LVLCFSAPSGHLCSSLS*LF*LAI HLTFFQGS*LPCIGLEHASLAQR SLLLPTF
6178	36546	A	6228	1	271	SAIVTFVCFMKFSCCVFQLHQV FHVL\FKLVLVSSSCNLF SRFLA SLHWVTTCSFSSEEFVITHLLKP APVNSSNSFSVQFCSLAGKEL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6179	36547	A	6229	1	1089	MGWRPRWLPYLYWGFQSDLC PHCKRKAQEEDSLAAQAASHP RLSANSKNNSWGKQYSYALFK AMRHMLCIGYGRQAPAAVSDV WLTMLSMIVGATCYAMFIGH/ ATALIQVLDCSRRQYQEKVVLP REHPNIGSSQEGGTWHQTVGL QQTSDKFDANDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGK HYGKQSLTTSAANTGTENGYQ GEESLFNKAYYGGGTNFFRKES QKLQQSATTRDAELANGALGII ELDNDSPKKRGATQRSSEENI TLKAYKRDVRSLLMLTRNEDV ADSLNSSKKRQNYQLPSIRSVT RCKKIGVCAKGIGCGQGTHYLS VSILNTADRRRLKGFTRTSMY
6180	36548	B	6230	1	1140	
6181	36549	A	6231	3	204	GSDYELGLW*PWLTSATDLH GECYSS*SGASGVVRSSLWARG LAGFRSEADLRGRESVAVTN
6182	36550	A	6232	1	1296	
6183	36551	B	6233	1	1686	
6184	36552	A	6234	1	627	
6185	36553	A	6235	570	736	SATFGRSSRSGCSGFPAASRRG RLPLSPPPWPAVVRVYPCGMLD NKASAAHPPKKK
6186	36554	A	6236	1	103	
6187	36555	A	6237	699	887	GLQPPAPRETRPLY*TLAWNLIH FLFVSPLDSCDLVRSVLTCLSP GNSPSFDMHRYQLPCVH
6188	36556	A	6238	2	803	
6189	36557	A	6239	2	1277	YKETYLHLFHTFTGLSIAFYNF GNQLYHSLLCIVLQFLRLRMG RTITAVLTTFCFQMAYLLAGYY YTATGNYDIKWTPHCVLTLK LIGLAVDYFDGGKDQNSLSSEQ QKYAIRGVPSLLEVAGFSYFYG AFLVGPQFSMNHYMKLVQGEL IDIPGKIPNSIIPALKRSLGLFY VGYTLLSPHITEDYLLTETYDN HPFWFRMYMLIWGKFVLYKY VTCWLVTGVCILTGLGFNGFE EKGKAKWDACANMKVWLFET NPRFTGTIASFNINTNAWVARYI FKRLKFLGNKELSQGLS\MLFLF LWHGLHSGYLVCFQMEFLIVIV ERQAARLIQESPTLSKLAATVL QPFYYLVQQTIIHWFMGYSMT AFCLFTW\DKWLKVYKSIYFLG HIFFLSLLFILPYIHK\AMVPRKE

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6190	36558	A	6240	56	324	
6191	36559	A	6241	68	487	
6192	36560	A	6242	52	457	
6193	36561	A	6243	263	787	SLEV*KWPGVACRLQL*P/MVP APKS*ESKSAGSLNTPSAICRDA SGRGLARPWLRKSKCLACHLV DTRSKTAGGLAPVPSAHLISVR EREPLCAVLVSQLEFRVGVGL VGPTLGARREPCWPQAMGDLA PEPVAALRLISRRALPAFPWGR ARDLQPAMPEPPTHSMGSCAPE PPR
6194	36562	A	6244	3	236	
6195	36563	C	6245	1	1608	
6196	36564	B	6246	1	1083	
6197	36565	A	6247	823	1055	KQKDGTGAPWSRGRSSGRLG THRSPRRGWEAQAWRAAGPET CPAGRQLRPGEKSSAAPG*RSR RKDAYEMDTAKKK
6198	36566	B	6248	1	390	
6199	36567	A	6249	27	363	
6200	36568	B	6250	1132	1268	
6201	36569	A	6251	11	489	
6202	36570	A	6252	356	638	
6203	36571	A	6253	1	507	
6204	36572	A	6254	80	336	
6205	36573	B	6255	100	912	
6206	36574	B	6256	821	2992	
6207	36575	A	6257	2	602	
6208	36576	A	6258	1	519	
6209	36577	A	6259	3	228	STGVPVSQ\RTCLLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPGLTRRSLGP TRWHQGTPH
6210	36578	A	6260	1	963	
6211	36579	A	6261	1	925	
6212	36580	A	6262	1	397	
6213	36581	A	6263	1	2625	
6214	36582	A	6264	11	241	SLQHNLNPATFLPVSKSPVKHNC VEVLDSVYSSGPNHRDHP*TSV DWELYMDGSSFTNPCKVTLKK TTSPAPVTPGS
6215	36583	A	6265	1	1662	
6216	36584	B	6266	1	897	
6217	36585	A	6267	3	258	
6218	36586	A	6268	1	279	
6219	36587	A	6269	1	258	
6220	36588	A	6270	1	639	
6221	36589	B	6271	1	1935	
6222	36590	A	6272	698	1643	

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6223	36591	A	6273	91	386	IFDFLLLYVSGCNSIAEPQHFT TTVTRCSPTVAFVEFPSSPQLKN DVSEEKDQK\KP\ENEMSGKGG SWVLFTKGEVQEWRESGLNPT KFNMGPLIYS
6224	36592	A	6274	1	2538	
6225	36593	A	6275	1	471	
6226	36594	A	6276	152	520	CPLTLLPSRGAGLGTCSPPCLS LPPTPWAPVRPEPPRRAPPPAPR RPVPSTGKEQTTQGLRNASARR GTGRQLHL\SPGVGSTG*SQGL
6227	36595	A	6277	831	1449	HPGQWLRRVCWVSSGAGPLAL CSISCPALAAFPVRGLGTCSPPC LSLPPTPWAPVRPEPPRRAPPPA PR/PPSPIDHPRAEYE/PHGAGL AGSSTCSPSAESTG*SQLGS*VV RVRGFILEVSETKNPPIPDFTGL PPGSSSAASTLVQVTRL*ISAISL PHLLSRPCSNTARGPVPAPVPG AAVRAPAAGGRWCGGARGRG RRGGGH
6228	36596	C	6278	1	426	
6229	36597	A	6279	1	535	MKHSGAQLASPSGS\PLGPQVE LPASPVCACTSQLGGRWDW APWSRGWCSSGRLGPHRSPWS GWE\LRHGGLQVPSAPREGS* GPARNP/GTAPGRPAAPSIGPP SPRPPRTPAGPQALRAAPVP\LA PLPPHPAS*GSLQWPA*KE APTVCQAEGLLKCRQSGSPGR GGAESE
6230	36598	B	6280	1	1743	
6231	36599	A	6281	1	428	G'TREEHLKRSGREIALPIEACV MLLLETGMKEEGLFRIGAGASK LKKLKAALDCS\ILTWDEFYSD PHAVAGVALKSYLRELPEPLMT FNLYEEWAQVASVQDQGQKT FKDLWRTCQKLPPQNFVNFY LIKFLAKLAQTS DV
6232	36600	A	6282	135	512	LPFRGAGLETCSPPCLSLPPPPW APVRPKPPR*APPPAPRRPVPST TQGS LGPHCFYEL*HSP*RSAAS LLKPARP*AHREERTTP/GRSAL/ TSCNTHREGLQ/PSLRKKETPNT SEHQKEQTPDAPP

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6233	36601	A	6283	698	2233	IQAAMQAAPQFGPSTED*CCPIT SEAPWAIMDAKLR\LKPPSHPL VSPHLNPQVWDTSSPSLATEHA SLTISLKPNHPYPAQSQYSIPQH ALKGSKPVITRLLEHGLLKPIN PYNPILPVQKLDKSYRLVQHL CLIQIVLPIHPMVNPYTLSSI PFTTHYSVLDLKHAFFTIPLPS SQPLFAFTWTDPDTHQAQQITL AVLPQCFIDSPHYFSQAQISSSS VTYLGII\MKTHIGLGAVEQGV VLVGEARAAQEPMEWVGSG MVGCRSRALPRGKAARREI ERSAVTIVPVLDFNPAFHIIPTT PDHHCISLIHLTFTPFPHISFFP VPHLEHTWFIDGSSTRPNCHSP AKAGYAIVSSTSIEATALPRST TSQQA\LIAYTDSKCAFHILHH HAVIWEERNFLTMQGASINAF LIKTL\KDILLPKEAGVIHCKGH QKASDPITQDNAYADKVAKKQ LAFQLLSLTAVFLLLIRPLSPTSP LKLPLINLFPHKANDS
6234	36602	A	6284	1	1239	
6235	36603	A	6285	1	477	QRPPHGVFVLGVAGRVHGP ELASHKAGPQLGDVGVCAGQGG QVGPLVLQPVVEHIQQLPG/AG HCAHQ*QGSPS*SSLRPERSLQ CRRPQGATATIRSTWWGPRGP VCTAALVPLCWPGWPVQKDEL QAVRSHSALASAMQTCSLAGP GLGSSHARLTA
6236	36604	A	6286	1	1134	
6237	36605	A	6287	673	836	
6238	36606	A	6288	1	225	
6239	36607	A	6289	1	468	
6240	36608	A	6290	495	1637	ESQVLSNVSPHVKV*NMASWE GKDLTVPPQPDTRKGSVLRISK RGRNASCS*DKRKASVCSLSLG NGMSRYKTRLYAPSTEIGKNRL RAGGGTCGQQYCFVKH
6241	36609	A	6291	1	507	
6242	36610	A	6292	215	389	
6243	36611	A	6293	1	255	
6244	36612	B	6294	69	1055	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6245	36613	A	6295	23	1596	IKPQRWGETRAEMLKILKTREP FLLQRIASPRQQWNKAGQRRS WFFERL/NKIDRLLARLIKKKRE KNQIDAIKNDKGDITTDPTIEQT TIREYYKHLYANKLENLEEMD KFLDTYTLPRLNQEELESNRPI TGSEIEAISSLRTKKSPGPDGFT AEFYQRYKEELVLFLLKLFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRLISLMNIDVKILNKIL ANRIQQHIKKLVHHDQVGFIG MPDWFNICKSINIIHHINRTNGK NHMIISIDAEKAFEKIQQCFMLK TLNKLIGIDGMYLKIIRAFDKPT ANVILNGQKLEAFPLKTGTTQG CPLSPLLFKIVLEV LARAIRQEK EIKRIQLGKEEAKLSLFADDMIV YLENPIVSAQNLLQLRSNFSKV LGYKINMQKSQAFLYTKNKQT ESQIMSELPFTIATKRIKYLGIQL TRDVKSLFKENYKPLLSKIKED TNKWKNIPSSWIGRISIAKMAIL PKVIYTFNAIPIKLPMTFFTELEK
6246	36614	A	6296	1	1488	
6247	36615	A	6297	1	1401	
6248	36616	A	6298	2	1256	
6249	36617	B	6299	84	955	

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6250	36618	A	6300	735	2718	RSFPRSRRSPFLLLSRYLRIHMOV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRVHKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITDATEIQTTIREYYKHLV ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPTGSEIEAIINSL PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKGRDTTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFIPGMQGWFNKRK SINVQHINRTNDKNHMIISIDAE KAFDKIQPFMLKTLNKLIGIDG TYLKVIRAIYDKPTANILNGQK LEAFPLKTDTRQGCPSPLLFNI VLEVLARAVRQEKEIEGILGK EEVKLSLFADDMIVYLENPIVS AQNLLKLISNFSKVSQYKINIQK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLGILTRDVKDLFK ENYKPLLNEIKEDTNKWKNI PC SWVGRINIMKMAILPKVICRFN APIKLPMPFFTELETTTLKFIWN QKRARKSILSQKNKAGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIMPHIYNYLIF DKPEKNKQWKGDSL FNK*CWE NWLAIWRKLLK
6251	36619	B	6301	1	2907	
6252	36620	A	6302	1	2358	
6253	36621	A	6303	1	1866	
6254	36622	A	6304	1	885	
6255	36623	A	6305	1	1059	MKNNSSEFEP LLLIPRQRGSGV DLQQTPTDLQLRVLTVRRKTN KQDIHTKTPTVRHHHQRPKNP WDTFKAVCRGKFIALNAHKRK QERSKIDTLTSQKVEKQEQT QSKASRRQEITKIRGELKEIETQ KTLQKINESRSWFFKINKIDRL LARLIKKREKNQIDTIKNDKE DITDSTEIQTTIREYYKHLV AN KLENLEEMDKFLNIYTL PRLNQ EEVESLNRPTGSEIEAIINSLPT KKSPGPDGFTAIFYQSYQEELV PFLKLFQSIEKEGILSNSFYKA NIILIPKGRDTTKKENFRPISLM NIDAKILNKIL/ANRIQQHIKKLI HHDQVGFIPGMQGWFN I
6256	36624	A	6306	1	1692	

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6257	36625	B	6307	1	2871	
6258	36626	A	6308	2	2315	
6259	36627	A	6309	1	1210	MMSFHLSVHTAIDGSHSSCS AWCSPIDRDYFEQENNSSSSCC CCCYHCHRKHCGGKGLSFPGE MPLSPGHFNKMMYSVSELMQG SGSGTFIPLPAELSLWLLVTNTK GQRMKNDAEIQTIREYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPTSSEIVAIIN SLPTKKSPGPHGFTAIFYQRYK EELVPFLLKLFQSIEKILPNSF YEASIIIPKPGRDTTKKENFRPI SLMNSDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISIDAE KAFDKIQPFMLKTLNKLGIK YLGQLTWDVKDLFKENYKPL LKEIKEDTNKWKNIPCSWVGKI NIMKMAIPPKATSPLESYKREK
6260	36628	A	6310	1	2745	MEGEMNEMKREGKFREKRIKR NEQSLQEIWVYVVRPNLRIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRYK SRRATPRHIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDTF

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6261	36629	A	6311	1	2052	MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDKTYQNLWDAFNAV CRGKFVALNAHKRKQEGSKID TLTSQLKELEKQEQTHSKASRR QEITKVRAELKEIETQKTLQKIN ESRSARLIKKKREKNQ/DAIKN DKRDITIDPTEIQTITIREYYKHL YANKLENLEEMDKFLDITYTLP RLNQEEVESLNRPTGSEIVAIIN SLPTKKSPGPEGFTAIFYQRYK EELVPFLLKLFQSTEKEGILPNS FYEASIIIPKGRDTTKKENFRP ISLMNIDAKILNKILAKRIQQHI QKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIISID AEKVFDKIQQRFMLKTLNKL LEVLA RAVRQEKKIKGIQLGKE ELKLSLFADDMIVYLENPIVSA QNLLKLISNFSKVSEYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDVNWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTSFTELEKTTFKFIWNH KGARIAKSILSQKNKAGGITLPD FKLYYKATVTKTAWY

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6262	36630	A	6312	2	2143	SSDGSWWTGFQWREWRQAGR SVNSWDNPKQEVRRASSKDKSR GSIQEAMRMQSSAKLLCSAWT LAYSIAVRTLSSDSEGQPPLVIH RQTGSGEDLQQTPTDLQLRVLT IRRKTNKQKGHPHQNPISRRQ EITKIRAEKKIETQKPFKKINES RSWFFKINKIDRLLARLIKKI EKNQIDAINKDKGNITNPTEIQ TTIREYYKHLANKLEHLEEM DKFLDIYTLPRLNQEEVESVNR PITGSEIEAIINSLPTTKSPGPDRF TAELYQRYKEELVPFLKLFQSI EKEGILPNSFYEASILISKPGRD TTKKENFRPISLMNIDAKILNKI LANQIQQHIKKLIHHHQVGFIPG MQGWFNILKSINVIHHINRTKD KNHMIISIEAEKAFDKIQPFML KTLNKLIGIDGYLTLYLKIIIRAIY DKPTANIILNGQKLEAFPFGTGT RQGCPLSPLLFNIVLEALARAIR QEKEIKGIQLGKEDVKLSLFAD DMIVYLENPIVSAQNLLKLISNF SEVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVKM AILPKTLNQKFSYWFRVKNHYI HQRTPFLKETEFNTIATLYNGA SP/CTAPKSTGTNGHQASGLPRF *RIAFCSALVKSRRKLYQGYLP GQTDREEGVSWCPGGP
6263	36631	A	6313	1	3018	
6264	36632	A	6314	1	2016	
6265	36633	B	6315	1	1215	

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6266	36634	A	6316	1	2268	MAGYPSETKPPEERSDSNICSSA IFTVLHPPLLIPRQTAFGMDLQQ MPTDLQLRVLTVKRKTNKQKG HPHQNPRTSPSSKTEDFQPTKI KRDKEGHYIMVKGSIQQEELTI LNIYAPNTGAPRFIKEVLRDLQ RDLDSTHIIMGEFNTRLSTLDRS MRQKVNKDIQELNSALHQADL IDISRNLHPKSTEYTFFSAPHRT YSKIDHIVGSKALLSKCKRTEII TKCLSDHSAIKLELRKLNLTQNC STTWKLNLLNDYWVHNEM KAEIKMFFETSENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKTDLTSQLKELEKQEQT HSKASRRQEITKIRAELEIETQ RTLQKISESRSWFFEKINKIDRS LARLIKKREKNQIEAIKNDKG DITTNPTEITQTTIKEYYKHLYK NKLENLEEMDKFLNTYTLPRLN QEEVESLNRPTGSEIVAINSLP TKKSPGPDGFTAIFYQRCKEEL VTFLCLKFQSIEKEGILPNSFYE ASINLIPKPRDRTTKKENFRPISL MNIDAKILNKILANRI/WGN*AE ERNKEYSIRKRGSQIVPVC*H DCVSRKPHHLS PQSP*ADKQLQ QSLRIQNQCTKITSILIHQ*QTNR EPNHE*TPIHNCFKENKIPRNPT YKGCEGPLQGELQTTAQ*NKR GHKQMEEHSMLMDRKNQHRE NRHTAQGNL*IQCHSHQATNDF
6267	36635	A	6317	1	1797	
6268	36636	A	6318	2	2063	
6269	36637	A	6319	1	1212	

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6270	36638	A	6320	1	2718	MALFRVGMTTTTRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAELEKEIE TQKTLQKINESRSWFFKINKID RPLARLIKKKREKNQTDTIKND KGDITDPTEIQTIREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLKLSQSIEKERILPNSSYE ASILIPKPRDTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMIISIDAE KLISKFSKVSCHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWNQKEP/CIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNLIFDKPDK KKEWKGDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
6271	36639	A	6321	1	2307	
6272	36640	A	6322	1	1989	
6273	36641	A	6323	1	3285	
6274	36642	A	6324	3	4732	
6275	36643	B	6325	1	2693	

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6276	36644	A	6326	603	2976	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICTSPSSKTKETQTTIREYY KHLNANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLLKLFQSIEKEGIL PNSFYEASIIIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSINVIIHMKRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGDGTYLKIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRAIQKEIK GFQLGKEEVKLSLFVDEMILSL ENPMVSAKNLLKLISNFSKVSG YKINVQKSQAFLYTSNRQTESQ IMSELPFTIASKRIKYLGIQLTGD VKDFFKENYKPLLNEIKEDTDK WKNIPCSRVRGRINIMKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKA'VTKTAC HRVGRAQQHSISKWKWYIHDW SQVGPEGTNDARSYPDTTQKW TAAALQPLSRTSLKDSHEGKSS QWAEALRAVHLVLRFAWKEKW PDVQLYTDSWAVASGLAGWS GTWKKHWDWKIGDKEIWGRATP VIAQWAHEQRGHGGRDGDYA
6277	36645	A	6327	3193	6107	SMKTGLEKKMKRNEQSLQEIW DYVKRPNLPLIGVPESDGDNAT KLENTLQDIIQENCPNLRQANI QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGRV THKGKPIRLTAALSAETLQARR DRRPIFNILKEKNFQPRISYPK LSFVSEGEIEYFTDKQMLRDFL MTRPALKELLKEALNMETTGA PRFIKQVLRELQRDLDTHTITG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADL
6278	36646	A	6328	1	1808	
6279	36647	A	6329	1	4695	

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6280	36648	A	6330	1	2915	MIMGDFNTPLSTLDRSTRQKVN KDTWELNSALHQADLIDIYRTP HPKSTEYTFFLAPHHTYSKIDHI AGNKALLSKCERTETITNCLSDH SAIKLQLRIKKLTQNHSTTWKL NNLLLNDYWVHNEMKAEIKIF FETNKNKDDTTYQNLWDTFKAV CRGKFIALNAHKRKQERSKTD RTSQLKHLENQEQTTHSKASRRS WFEKINKIHRPLARLIKKKREK NQIDAIKNDKGDITTNPTETIQT REYYKHLTYN
6281	36649	B	6331	1	6730	
6282	36650	A	6332	1	378	
6283	36651	A	6333	3	1700	
6284	36652	A	6334	1	1759	
6285	36653	A	6335	2	409	
6286	36654	A	6336	1	2051	MFGRSRSWVGGGHGKTSRNIH SLDHLKYLYHVLTKNTTVTEQ NRNLLVETIRSITEILIWDQND SSVDFDFLEKNMFVFFLNILRQK SGRYVCVQLLQTLNLFENISHE TSLYYLLSNNYVNSIIVHKFDFS DEEIMAYYISFLKTLCLKLNNH TVHFFYNEHTNDFALYTEAIKF FNHPESMVRIAVRTITLNVYKV DNQAMLHYIRDKTAVPYFSNL VWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHLHLHYLND ILIINCEFLNDVLDHLLNRLFLP LYVYSLENQDKVFLIIHHAPLV NSLAEVILNGDLSEMYAKTEQD IQRSSVPLTLSSLWQGSHLSLNQ LQSGLHKCSSHLCGAQAADS VTGEIPAIRSLEWLISAGSKART FFFLKMLIGFWEKVDCEYQRR QVLSTRLQEALPSNRLTDVA HSSCMLGFGSTAPRGSWIGDPA AVHLPLPGELAEHLGSKGTTTV TKHQPPAKPSIRCFIKPTETLER SLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAE KAKGTEGGSGIKTSGESEEIE MVIMERSKLSELAASTSVQEQN TTDEEKSAATCSESTQWSRPF LDMVYHALDSPDDDYHALFVL CLLYAMSHNK/GKSPEKEEGLS GTQSHPGKAGTFGKEGAERK
6287	36655	A	6337	2	2753	
6288	36656	A	6338	1	577	
6289	36657	A	6339	1	849	

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6290	36658	A	6340	1	1293	
6291	36659	A	6341	1	861	
6292	36660	A	6342	154	6208	RRAPGKIPGQASAF LGRTWSRP CLRTQLCVIVSCLAKAGVQGYL VGSPGGAKRFLFSERTGSFSKL AAMSSWLGGGLGSGLGQSLGQV GGSLASLTGQISNFTKDMLEMEG TEEVEAELPDSRTKEIEAIHAIL RSENERLKKLCTDLEEKHEASE IQIKQQSTSYRNQLQQKEVEISH LKARQIALQDQFLKLQSAAQSV PSGAGVPATTASSSFAYGISHP SAFHDDMDDFGDISSSQEINRL SNEVSRLESE
6293	36661	A	6343	3810	5310	SQGTCPDRPCNVSG*RI SIEEI EAGRIPNPHLG PVEERLALHVL QQQGLVPEHVESRPLYSP LQPD IEQAFPSFGRKSRWIRVIPFRFF LRCHWNTRDVIDDL SLTGEK MSDIYVKGWMIGFEEHKQKTD VHYRSLGGEGNFWRFIFPFDY LPAEQVCTIAKKDAFWRLDKT ESKIPARVVFQIWDNDKFSFDD FLDPYAIVSFLHQSQKTVVVK N TLNPTWDQTLIFYEIEIFGEPAT VAEQPPSIVVELYDHD TYGADE FMGRICQPSLERMPRLAWFPL TRGSQPSGELLASFELIQREKPA IHHIPGFESEDTLPYPP PQREA NIYMVPQNIKPALQRTAIEILA WGLRNMKSYQLANISSPSLVVE CGGQTVQSCVIRNLRKNPNFDI CTLFMEVMLPREEL YCPPITVK VIDNRQFGRRPVVGQCTIRSLES FLCDPYSAESPSPQGGPDDVSL LSPGEDVLIDIDDK EPLIQNYA
6294	36662	A	6344	1	527	
6295	36663	A	6345	5251	5711	PPQRGPPSSSCYSRSQRSVSRCP SRHRPSAASPRPGRPSGRSGLLA GLRLWAGAGCFQC PCLQRGL FSPEALRPQAPAHKGLFSGSLW PQQRSHQGLRAAATS*DRRAG ALCKWCPRPSGT PRGEHLS*EN ESLPP**RWAHQ TAPQESQTS
6296	36664	A	6346	1	924	
6297	36665	A	6347	1	894	
6298	36666	A	6348	1	525	
6299	36667	A	6349	6	343	
6300	36668	A	6350	1	2693	
6301	36669	A	6351	26	353	
6302	36670	A	6352	1	9182	

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6303	36671	A	6353	1	8655	EAAKDLADIAAFFRSGFRKNDE MKAMDVLPILKEKVAYLSGGR DKRGGPILTFPARSNHDIRQE DLRRLISYLACIPSEEVCKRGFT VIVDMRGSKWDSIKPLLKILQE SFPCCIHVALIHKPDNFWQKQRT NFGSSKFEFETNMVSLEGLTKV VDPSQLTPEFDGCLEYNHEEWI EIRVAFEDYISNATHMLSRLEEL QDILAKKELPDLEGARNMIEE HSQLKKKVIKAPIEDLDLEGQK LLQRIQSSESF
6304	36672	A	6354	1	1338	
6305	36673	C	6355	152	404	
6306	36674	A	6356	137	1278	MDSQPNSTRGQSGRR/MEIKGI QLGKEEVKLSLFADDMIVYLEN AVTSQPKISLS**ATSAKSQDTKS MCKNHKHSYTPITDKQRAKS* VNSHSQLLQRE*NT*ESNL*GT* RTSSRKTTNHCSMK*KRIQTNG RTFHAHG*EESIS*KWPYCP*F IDSMPPSSYQ*LSSQNWKRL SSSYGTKKEPASPSQS*AKRTKL EAS/LLPDFKLYYKATVTKTAW DMDEAGNHHSQQTITRTKNQT PHVLTHRWELNNENTWTQEGE HHTPGLVVRSPDPEQNFKAVR CLDLDP/PSSSFLAVLTFHFKPA FLQSLR*DKPRS/SPALGTWHKP *KITPKKQ/HQAITKPNTTEYRTA VKPSVVGALPDINSFLKLGGLH RITNGCLLD

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6307	36675	A	6357	1	2569	MRTKTQHTRISWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIEQTTI REYYKHL YANKLKNLEEMDKF LDYTL PRLNQEEVESLNR PITG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKL FQSIEKE GILPNSFYEASHILIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKLLIHDQVGFIPGMQ GWFNIRKSINVIQHVNRADKN HMIISIDAEKDFDKIQQPFMLKT LNKLGIDGTYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVVEVLASAIRQEKEI KAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFIIASKRIKYLGIQLTRDVKDLF KENYKPLIKEIKEDTNKRKNIPC SRVGRINIVKMAILPKVIYRFNA IPIKLPMFTFFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DFKLYYKA'VTKTAWYSYQNR DIDQWNRTEPSEITPHIYNLIF DKPEKNKQWGKDSL FNK WGW ENWLAIWRKLKLD PFLTPYTKI NSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTP/TSNG NKRQN*QMGSNETKELLHSCR
6308	36676	A	6358	1702	2252	FLSLFFISLASSLSILLIHIMNSW IPHSPIFTDLNVESSRLCPLGDIM M*IPLTWYLIVTCTHLSREITTV PRGLARLWSFTRICPRTHCKPIP A\VLLRAGCPPSCWWDQDTHS QLPSKRSSYTLLFFCTVTEYPFLD *WP*NHGTPC*TAPLWSMF/PCS CWYPVTGPGVSCSPSCVQVFSL FISHL*VRTCGVWFFVLAIVC*E *WFPASSMSQAVLVTVAL*YSL KSGSVMPPA\FSFGLGLTWRCR LFFGSIRTLK*IFPIL*RKSLVA* WGWH*IKLRWAVWPFSTRY*F FLPMSM/VMFFHLFVSSFISLSS GL*FSLKRSFMSLVSWIPKYFIL FEAIVNGSSLMIWLSVCLLLLH KNACDFCTLILYPETFLKLLISL RRFWAETMGFSRYTIMSSANR DNLTSSFPN

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6309	36677	A	6359	207	1209	IPRHIHPPKTKPGRS*/TP*IDQ*Q ALKLRQ/CINSLPTKKSPGPDGF TAKFYQSPSLTGKNDKEPEILPY FHADFLVVPGTHQASPVLMLVL GHKSFPHRNSPPSVCMAFFTQ KPPSQSIHNAVNTHTDPPLFLVL LKDRGLLVIWCHESQGDELWH LVLLDSKCCFGSMTHRMEWSG PSAAGLLEFAGGPLQTLFAWVS AVEAAEQRILLNSKCCCLIPLE ALSQRGIWPWQGSPPVPRPWTTT TLWPVRNQATQQETSLMPCQL EGKEPLALPTKEAEIEGRRTGEI KKVERDSNTNKEELLLDLAFK VSSLFDKLEEVVELLVIGELQL YPSK
6310	36678	A	6360	544	678	AFHVSFGCINVFF*EVSVHML CPLFDGVVFFLVNLFEEFVDSG
6311	36679	A	6361	7	94	VRTSGVWFFVLAIVC*E*WFFA SSMSLIY
6312	36680	A	6362	381	431	ATKQDSVSKKKEEEEEEEEEEE EEEEEEEEEEEEEEEEKEK/GNK ERKK/DKGKARQVQARQIYLLS LHLGRIRKVPNNNKA*SSCP
6313	36681	B	6363	1	603	
6314	36682	A	6364	1	987	
6315	36683	B	6365	1	444	
6316	36684	A	6366	977	1177	RTSISSPVSSSTCSPLVMPTLLPQP TVPWRMWRPCTQ*RNAGTFSP AVAMGLPVEAVICLSV*DSPA
6317	36685	A	6367	1148	1395	
6318	36686	A	6368	33	663	VHVLCGDTDETGNHHSQQTIA RTKNQTPHVLTHRERLSLRRL HSCAYSLHRWLGARHAQKGS NTKGCGGQGPRTSERGPASGEF SENCTSLGQRGVFSPPRRALL HSPSDG\SVPLGAVDSSP\PASTR RDWSHWAVGKSPEREPAGKV T*TTRQLQPASP*REHPLLNSQH GHCLKISLPLPTVLSPSPPLSLC SNVTFSTRPLT
6319	36687	A	6369	1	1314	
6320	36688	A	6370	120	410	
6321	36689	A	6371	1	492	

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6322	36690	A	6372	3	945	EEVPRSMSK KKKRKRKRKR EEEEEEEEEEEEEEEEEEEE EERR\EGEGEEEEEEEEEGKEKID PSHLELKMVRNKNTMYEVCLM PIGIKPQVNVGAMQCILVAPYIS PIVGVINFNDQVNSQGGGSKME DGIHFRGKVMLHVGRKRQRVK KGLGYAFISSMKTNEYTKLVPV EWGLAEKIPKNVEATLELGNRR SKKTGGILPLLLWNFELERDEL GYLVEEISKQPSIQQMTWVLLK AFRFIQEAEPKSENLPDENVIE KKNPFSEGGFMLAAEICISNEE WNGNVNPQDYGGKWLQGMA EVFTATPSITGLEA
6323	36691	B	6373	1	792	
6324	36692	C	6374	348	884	
6325	36693	A	6375	1	588	
6326	36694	B	6376	1	5339	
6327	36695	B	6377	520	3146	
6328	36696	A	6378	1	2044	
6329	36697	A	6379	1	585	
6330	36698	A	6380	1	2433	
6331	36699	B	6381	53	441	
6332	36700	A	6382	2	425	
6333	36701	A	6383	1386	2569	FLRKHRESGKDEEMTALCSFPG VAGEDELQVIQPEKSVSVAAGE SATLRCAMTSLIPVGPIMWFRG AGAGRELIYNQKEGHFPRVTTV SELTNRNNLDFSISISNITPADAG TYYCVKFRKGSPPDVEFKSGA GTELS VRAKPSAPVVSGPAVRA TPEHTVSFTCESHGFSRDLTK WFKNGNELSDFQTNVDPAGDS VSYSIHSTARVVLTRGDVHSQV ICEIAHITLQGDPLRG TANLSEAI RVPPTLEVTSQPI\RAENQANVT WQVS NFYPRGLQLTWLENGNV SRTETASTLIENKDGTYNWMS WLLVNTCAHRDDVVLTCQVEH DGQQAVSKSYALEISAHQKEH GSDITHEPALAPTAPLLVALLG PKLLL VVGVS AIYICWKQKA

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6334	36702	A	6384	1	2453	MEPAGPAPGRLGPVLCLLLAAS CAWSASRQLPAVQVLRGDVTC GSDHVFLLAYIKHLAVAGRRRA LKATVHVHQRTLLRPGGCGSV PGKRAVTLISKCSGQPAFPGA PAGNTNTFLVCSCGFPDLQSSR GPERALCAFIQCLMVRPEEQRE KNWPGPRGRSMARPGWNAKPP VVQAKAFKNWAVLELSTVSAR NLTGSRIPRENTKVILIGTIWVL CFLGSALGVCDPGGTHSHLAM HVVFPGPVGSNNPSIVIIIRPIL QIKSQRSRVGETFPGVSWVAEL ESKSKHTFSQCQALLQPWGRK LSSCSQRTYNLLLVCIQSMNVI DKHLRKHRGSRVAGEEELQVI QPDKSVLVAAGETATLRCTATS LIPVGPIQWFRGAGPGRELIYNQ KEGHFPRVTTVSDLTKRNNMD FSIRIGNITPADAGTYCVKFRK GSPDDVEFKSGAGTELSVRACP SAPVVSGPAARATPQHTVSFTC ESHGFSPRDITLKWFKNGNELS DFQTNVDPVGESVSYSIHSTA KVVLTREDVNSQSFV*GPTVT LQGDPLRGTTANLSETIRVPPTLE VIQQPVRAENQVNVTCQVRKF YPQRLQLTWLENGNVSRTEA STVTENKDGTYNWMWLLVN VSAHRDDVKLTCQVEHDGQPA VSKSHDLKVSHPKEQGSNTA AENTGSNERNIYIVGVVCTLL
6335	36703	A	6385	1	405	
6336	36704	A	6386	91	2926	PACPSRLPFTNTDTHIDTSSPA SRSTRCLCISTHGVLAQSGGSSG GPAVPTVQRGIKMLVLSGCAIIV RGQPRGGPPPERQINLSNIRAGN LARRAAATQPDADTPDEPWA FPAREFLRKKLIGKEVCFTIENK TPQGREYGMIVLGKDTNGENIA ESLVAEGLATRREGMRANNPE QNRLSECEEQAKAAKKGMWSE NGSHTIRDLKYTIENPRHFVD SHHQKPVNAIIEHVRDGSVVRA LLLPDYLLVTV
6337	36705	A	6387	2	448	
6338	36706	A	6388	1	645	
6339	36707	A	6389	1	294	

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6340	36708	A	6390	23	321	RGREHTQGIPGAGKRWH*FKV LLTQ/CW*SEFSVIRQFKAGPGG LDQFRDRSK/RWLRDLRGRLLG SLNASLVLRALFSGNWGLTAN QL*LAVGAKGDPEA
6341	36709	A	6391	1	1599	
6342	36710	A	6392	1	561	
6343	36711	A	6393	1	1833	STLASSEGQGGFWRGPRALILL LLFLGPCHARSHDGKYSREKN QPKPSPKRESGEEFRMEKLNQL WEKAQRQERYPCRRRRRVKQV AAGTPRVFLKTPEMGVFELCRP SGPHYLISNAGVRLDLLNSPVL SIPESLRGKVNDLQNKKELLER KGRGETGLARPMHDLTAAQGG YGCALVHGAQVEGAGAQQWA GTVHATCRGETGTACQEALVT ATACSSCQRGQTRAPQGQHTL ESMGLNCLPQGAASGSDHHCG PRISDLPGSAARTSRWPASSELH LPPVRLAELHADLKIQUERDELA WKKLKL DGLDEDGEKEARLIR NLNGHWRAEDAHQDGGVNK WDIPTVVGVGVAALVAVKL FFLPINIRCVLSESPATLHSLQV ASVLWSLEFLPYGSRSPVVIQET VILAKYGLDGKKDARQVTSNS LSGTQEDGLDDPRLEKLWHKA KTSGKFSGEELDKLWREFLHH KEKVHEYNVLLETLSRTEVHPG PQDGVASTGREHSPMETLFQEE LKHFEAKIEKHNHYQK\QLEIA HEKLRHAESVGDRRSV*SASPR ESTPCLEGRTKGAGLPR*KKHL QD\LSGRI\SRARHKRTLKALGS
6344	36712	A	6394	1	185	DFFDNSAQVTIAGIPCDIRHVSP RKIECTTRAPGK\V*GSPPLSQA EGFFLKLEMLLRDWN
6345	36713	A	6395	1	1512	
6346	36714	A	6396	117	268	QSLLEYLHLYLHLCYLHLANK QELTLTWYKE*CTFFLPSV*NPF HQNLA
6347	36715	A	6397	1	500	

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6348	36716	A	6398	1301	2565	TLLTILPFYLFKNRTSLTGYLRI WILSTKLFCLSTLWLAPTLFLIP/ LPDPHDCISLIHLAFTPFHTSFF PIPHPDHTWFDGSSTWPNRHSP AKVGYAIVVSSTSILEATALPPS TTSQQAELIALTRALALAKGLH VNIYTDSKYAFHILHHNAVIWA ERGFSTQRSSIIIASLIKTLKA ALLPKEAGVIHCKGHQKASDPI AQGNAYADKTKFLDLAFPLR LSFTCQITQAVSQALGIQWNLH TPYRPQSSGKDWTVFLPLALHR IRARPREATGYSPFELLYGRFTL LSPNLVPDTSPLGDYLPVLWQA RQEIHQANLLSTPDSQLYED TLAGRSVLIKNLTPQTLQPRWT GPYLVIYSTPTAVRLQDPPHWV HRSRIKLCPSDNQPNLSSSSWKS QVLPTTSLKVTLISEEQ
6349	36717	A	6399	581	2517	LFLGYSHTSLLPFPVQSLHLHLL PLYLHTLTHKYGIPLPPWRPIM HPLPSH*NLITLTLLNANIPSCST L*KD*SLLSLTCYSMAF*/QPINS PYNPILSVQKPKPYSSFRYVY SLFVESPTITIVPGPDFNLASHIIP DTTPDPYDCISLIHLTFTPFPHVS FFPVPHPFHTWFDGSSTRPNCH TPAKAGYAIVSSTSIIEVTTLPHS TTSQQAELIALTRTLAKGLC VNIYTDPISTTMLFYGLKCFLT MQGSSIINASLIKTLKAAALLPK EAGVIHCKGPQKASDPIAQDNT YADKVAKKAASVPTSIPHSSFS PSHLVTPTYSPPTETSTYQSLPTQ GKWFLDQGKYLLPASQAHSILS SFCNLFHVGKPLARLSELLISF PSWKSILKEITSQCSICYSATPQ GLFRPPFPKHQAWGFVPTQD WQIDFTHMPQVGKLYLLVW VDTFTGWVEAFPTGSEKATVVI SSLLSDVIPRFCLPTSIQSNNGLA MISQITQAVSQALGIQWKLCTP YHPQSSGKVKWANGLLKTHLT KLSLQLKKDWTVLLPLALLRIR ACLRNATGYSPFELLYRCSFLL GPSLIPDTRPTWTAPPKTWHPY YLLSSTPIHRSQQLIHALLLFTL PVYTVSPSHHS

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6350	36718	A	6400	281	1095	DCSKRNRHSQVIAEGNICKIQE VRRKEDTQGGEKDPESLLLPPL LAPGPT/YSTYYNISVAKAELL NKLKDQPEMAEIGLGEEVDH ELAQQKIQLIESISRKLSVLREA QRGLLEDINANSALGEEVEANL KAVCKSNEFEKYHLFVGDLDK VVNLLLSLGSRLARVENALNSI DSEANQEKLVLIEKKQQLTGQL ADAKELKEHVDREKL VFGMV SRYLPQDQLQDYQHFKMMSA LIEQRELEEKIKLGEEQLKCLR ESLLGPSNF
6351	36719	A	6401	1	972	
6352	36720	A	6402	514	736	
6353	36721	B	6403	446	991	
6354	36722	A	6404	521	903	NIKPASQISPG*I*VHSSPTQRLS APPSAA/GRLLSLSLPAGLVGGD TARCIPAGRLRPLCSWLDPGKL LHLSLKSKGSGGRSGAGTLQEG NQSVCIAEKPPLKPAIQTQSG MNVLCRCRAYSWVIDWD
6355	36723	A	6405	11	545	
6356	36724	A	6406	3	2920	
6357	36725	A	6407	1	2388	
6358	36726	A	6408	275	479	
6359	36727	A	6409	1	3810	
6360	36728	A	6410	7	1047	
6361	36729	A	6411	1	705	
6362	36730	C	6412	304	638	
6363	36731	A	6413	99	759	WAYLDFWM*HIPHLGVLL/SAH LLSDLNSCQF*MGSRTGEGSATG PGSCSAALPLGPYPADPMVLE VSMARDASPHDPLAKFLFPVP MTLHSALLEVLVPEGGLPFGD TTTIPLNW/IVKIAT*TLVWPPTF KFTGCRLNTMWKLPRLGASTL *SNSLRCTLTSFSDWSGWDAG HQVIRPHGFAGYNTCGCFHRL MLSACGFSRQMVQAVNGSTTL GSGG
6364	36732	A	6414	1	685	
6365	36733	A	6415	1	1359	
6366	36734	A	6416	3	7714	
6367	36735	A	6417	1	723	
6368	36736	A	6418	1	528	

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6369	36737	A	6419	38	530	HSPRRSAASLLSQRDHEPHQKE ETPNTSEHQKEKTPDTPPLRTV TLTVRVHGFIEVSETKNPPIPD TKLRG/ERLQGFGLAGFRSE/GC RPSP*VLQLIKAVWTQRPLGGR WDWAPWSRRWCSSGRLRPHR NQWSGWEAQAWGLQVPEPCP AGRQLRPGEKSSTAP
6370	36738	A	6420	1	649	
6371	36739	A	6421	1	987	
6372	36740	A	6422	1	924	
6373	36741	A	6423	1	435	
6374	36742	A	6424	1	147	
6375	36743	A	6425	1	1107	
6376	36744	A	6426	3	913	
6377	36745	A	6427	1	159	
6378	36746	A	6428	313	1083	
6379	36747	A	6429	1	1245	MAQELRDTCTSFSSRFQVEER VMVIEDQINEMKQEEKFREKR VKRNKQSLQEIWVYVVKRPNLR LIGVPEKNLEETDKFLDTYTLPR LNQEEVESLNRPTDSEIEAINS LPTKKSSGPDGFTAIFYQRYKE ELP/RQRHNKKREF*TNIPDEHR CKSPQ*NTGKPNPAAHQAYPP *SSGLHPWDARLVQHTQINKRN PAYKQNQGQKPHDYLSRCRKG L*QNSAALHAKNSQ*IRY*WDI SQNNKSYL*QTHSQYHTEWAK AGSIFENWHKRGMPSLTPIQ HSVSSGQGNQAGERNKGYSI RKRGSQIVPVYR*HNCISRKPH HLSPKSP*AGKQ/SSAKSQD/DKI NVQKSQAFLHTNNRQTESQIMS E/APIHNCYKENKISRNPYKGC EGPLQGELQTTAQRSKKGHKQI
6380	36748	A	6430	39	314	KSECLIYTKGSQRLASNGTKLD GE*L**VDRIRLQKIGNDKLLPA KGGCSNPSQRS*KPRKKIRQMA N*NKQHRGDLK*PDGAENHGT RTT
6381	36749	A	6431	213	843	VDRSRLQKVSNNKLL*AKGEC NPLQGS*KP*KKIRRMAN*NKH CREDLK*PDGVENNGTRTS*FM HKLQ*PI*SSGRKGISD*R*N*N KIHQG*NEGKSVKGSQRERSSY PQRKAHQTNBSLSRNPTSQKK VGANIQHS*RKEFSTQNFISSQT KLHK*RRNKIFYRQADAERFCH HQACVTRAPEGSTKHGKKQPV PAPAKTGQIV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6382	36750	A	6432	1	2112	MRAFVVLMDVSKLPSEGGPG LRSNQQHMRMFLTSVDRGSVS LLADAVAAATPQGTSQPRGPS NLAADLRVAEESGMENLFLK MSFDSIRPAQDGGCTPEISMVTP SPGWSVHTGDLGDHPLPRMVS AHRRSRWSPPPQDGGCTPEISM VIPSPGCSVHTGDLGDHPLPRM LSAHRRSRWSPPPQDAQCTPEIS MVTSPGWSVHTGDLGDHPLP RMVSAHRRSRWSPPPQDAQCT PEISMVTSPGCSVHTG
6383	36751	A	6433	1	648	
6384	36752	A	6434	1	1539	MLVSFVSLGSLCLQPGSQTLLE KNRTVKPHVSFTLLPALSHVSE KNEAESMNSLIPPPNLHTPAQ APFPLPTEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE/ SAN*NQQCREDLK*PEAEIHGT RTS*HMHKLO*PI*SSGRKGVSD *GSNQ*NK*WGEWNQVGKHS GYYPGELPQPSKAGQHSNSGNT ENTTKILLEKSNPKTHNCQIHQ G*NEGKSVKGSQRERTREAR NKFKS*QKARYN*DQCRTERD RNTENPSKN**IQEPVF*KDQQN **NASKTNKEEKREESNRRNKK **KNRTVKPHVSFTLLPALSHVS EKNEAESMNSLIPPPNLHTPAQ APFPLPTEQDRSSSPATEQSW TENDFDELTEVGFRRSVITNSSK LKEDVRTHCKEAKNLEKRLHE WLTRINSVEKTLNDLKLKSMA RELHDTCTSFNSRFDQVEERVS AIEDQTNEINNGENGTKLENTL QDIIQENFPNLARQANIQIEIRR TPQRYSSRKATPRHIVRFTKVE MKEKVLRAAREKGLERQEQTN SKASRRQDITKISAELEKETQK TLQKINEFRSRFFKKINKIDKTL ARLIKKKREKNQTDIAKNDKR DITDPTEIQTITREYYKHYLAN KLENLEEMDKFLDTYTLPRLNQ EEAESLNRTITGSEIAIINSLPT
6385	36753	B	6435	137	586	
6386	36754	A	6436	129	506	
6387	36755	A	6437	1	237	
6388	36756	A	6438	182	1034	

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6389	36757	A	6439	203	650	SAIVCGSPLRLRMQAVSSRINSA HSRGAIYSQASSAACPSVSI AF LRR*IEANVS/WIRTLSTLCTPK CGPGFKHRIVLCKSSDLSKTFPA AQCPEESKPPVRIRCSLGRCP PP RWVTGDWGG/CDSRDPRPGRR RRDFCRNGRAGAGH
6390	36758	A	6440	207	426	AECTRCAIPK/HSCYPVLLIVVS P*KKQ\NCSLGELSCWRRESCRS SWSNKALPSLTRCLRGFVCGLS CYKGSS
6391	36759	A	6441	524	783	TAVLAARISNQWILSCWS/AVG CTPKCGPGFKHRIVLCKSSDLS KTFPAAQCPEESKPPVRIRCSLG RCPPPRWVTGDWQQLSPTREK
6392	36760	A	6442	1	1524	
6393	36761	A	6443	1	8738	
6394	36762	A	6444	1	642	
6395	36763	A	6445	1	549	
6396	36764	A	6446	8	434	
6397	36765	A	6447	1	2922	
6398	36766	A	6448	18	1158	FLDFDCPYGSAHITGLRFWLPW YRKRQRYWGSHGNCMPPPSLR VPERCPSHTEPRNLTGA*ELLLL GLSEDPQLPILAGLSLSMYLVT VLRNLLISLAVSSDSHLHTPMC FFLSNLCWADIGFTSAMVPKMI VDMQSHSRVISYAGCLTQMSLF AIFGGMEE\NMLLSVMAYDWF VAICHPLHYPVIMNPHLGVFLD LGAFFLSLLDSQLHSWIVLQFTF FKNVEISNFV*DPSQLLNACSD SVINSIFIYLDSIMFGFLPISGILW SYANNVPSILRISSSDRKSKA FS TCRSHLAVVCLFYGTGIGVYLT SAVAPPLRNGVVASVTYAVVT PMLNPFIYSQRNRDIQSALRRLR SRTVESHDLLHPFSCVGKKGQA
6399	36767	A	6449	2	1535	
6400	36768	A	6450	1	635	
6401	36769	A	6451	222	1040	
6402	36770	A	6452	2	1135	
6403	36771	A	6453	1	576	

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6404	36772	A	6454	2	694	QCGGIQRSHGWSQEASDSVW QLQSMWMLDKLTGVFAPRPST GPHKLR/ECLSRIFLRNRLKYA LTGDEVKK\CMQRFIK\DGKV RT\DITYPVG\FMDV\SIDKTGR EFPVLIYDTKG/RAFAVHRITP/E EAQVPSCAKVRRDLCGAQKGIP HLVTH\DARTIPLPRSPSSKVND\ TIQ\LEDWARFT*FSSKFDNW *TCCMGDWEGA*P*GRNWVLI HQQRRRAPWDLF
6405	36773	A	6455	1	243	
6406	36774	A	6456	3	766	
6407	36775	A	6457	1	741	
6408	36776	B	6458	500	8643	
6409	36777	A	6459	1	7863	MKPRTLTVRVTALKVARLESV PSDVQMCSEFLPSDSAAQLASP SGSRTGAAGGAAYQSCAVLPH SSALWVVDGTRCRGAGGSAHQ GGSATQEPTERVEGSGMAGCR SRVLPHWKAANVLGMSVESAP AVEEEKGEELEQKEKEKEEDTS GNTTHSLGAEDTASSQLGFGVL ELSQSQDVEENTVPYEVDKEQL QSVTTNSGYTRLSVDANTAIK HEEQSNEDIPIAEQSSKDIPVTA QPSKDVHVVKQNPPPA
6410	36778	A	6460	2	669	ERRRRKLTIPCPPHPAPPTGGQ ACRENAEGIL*AANTSEPGKDA EK*KIKV*LAP/CSHSGSSLQSDP HFGCSLGPS/DPALGLSGCILPPC SGSYLAPAPNSRIPKPLKPW/H /ESYLPSAVRPHGTQAPGLWPE RGL*PAGFLLRPEPVRAASER/Q EAVSPER*VPRPPKAQQLHGQS PDPSSLCTALRQDHTHWLDARS VYPDWRGQPWPPLHQDCGHG GWR
6411	36779	B	6461	241	369	
6412	36780	A	6462	1	510	
6413	36781	B	6463	1	630	
6414	36782	A	6464	229	561	SCRGYSRILLFLHKSSWCSQVIS IFRYNIICSLRPSWKWRLPVY MNWL*YHWFQYHSSINFISFR SMWFIIINFKRSPAFILSGWSIS IARWQIFVFFTTFGSR TKV

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6415	36783	A	6465	1271	1710	TEGLGHRSETPGGAALDALTG ERPRVACFPAARGRLRPRRL MIGPFETGGGQRLTLRPRRR QRRRP/WQGLERPHVRNWGIEL ETLRDAFRPQPSVWRTARGEA GKRKGRLVECLGSQRKVLEGV LLYAVTRGSFPNLFTRPD
6416	36784	B	6466	1	772	
6417	36785	A	6467	1	1272	
6418	36786	A	6468	3	236	
6419	36787	C	6469	1	457	
6420	36788	B	6470	148	324	
6421	36789	A	6471	1	1407	
6422	36790	A	6472	1	651	
6423	36791	A	6473	619	835	
6424	36792	A	6474	52	535	
6425	36793	A	6475	319	647	LCRRIMYFCVMKNWMQSLW KLCTNKR*RIDKPTLHQVVVRK *LTPLGMKNQVDSLELLETRSL KKDPVELGSKSLRRCCCQTEPV NLLPHVSIGTLKI*SRILRLQRP
6426	36794	A	6476	39	515	
6427	36795	B	6477	1	807	
6428	36796	A	6478	3	247	GANICCW*GLQE/VFHSW*KTQ EPSWLHLVDPTTGLQVELPASP APFARIPQPLGGRWDWAPWSR GWCSSGRLGQHRSPWSG
6429	36797	A	6479	27	363	
6430	36798	B	6480	1132	1268	
6431	36799	A	6481	1628	2008	
6432	36800	A	6482	953	1087	
6433	36801	A	6483	2	443	QLAGRCGGRGMSGNRGCWGA CGPAGVPGG/CWAWCALHSEE PASPALRSISRRALAAFPGRAR DLQPAMPEPPTPSVGSCAAQAS PTSAAPCSMAPSPIDHPRAEECV ARRGTGRHDELIVALPFMMIPW HSSIQPFTIHPFNWNFG
6434	36802	C	6484	175	423	
6435	36803	B	6485	122	608	
6436	36804	A	6486	644	1149	KTMHWKAPLMSWHMHRASSQ KQTRTGTQT/MEAQLQQLQRY QEALLQVLRKGEKKAFNMGNI SEVLQRADESCSQFYERLYEAF QLCSPFDPEATENQCMNAVVF VGQTQGDIRKRLQKLECFMG NVTQVLEVATKVYTNCEEETQ GKGQFAGGSTYKGKGECPTK
6437	36805	A	6487	1	2847	
6438	36806	B	6488	329	742	
6439	36807	A	6489	1	1035	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6440	36808	A	6490	13	630	INPPPPFRPEPPSSSNSPKMTDH KGERGEATRYMFSRPF\RK\HG VVPLGPHICRI\YRKGDIVD\IKG MGYCSKKGIAPTKCY\HGQNLE GVLPMLPQHACWPFVVNQPV GQSFFPRELMCRIEHI*ALLRAR DKLPETVLKENDSEKERSPNEK GTWGSNLKRHPGSTPEEAHFV RTQWGRSLELAGTLFPMNFMG IIGVKEIK
6441	36809	A	6491	1	1020	
6442	36810	A	6492	1	330	
6443	36811	C	6493	250	372	
6444	36812	A	6494	1	345	
6445	36813	A	6495	2	335	TVRAYNVPQHAVGIVVNRQVK GKIPAKRINVGIKHFHSTS*EN FLKRMKENDQKKKEAKEKVT WIQLKHQSAPPRE/AQCERTNG KEPELLEPLPYEFMHNTYIHIYV CVH
6446	36814	A	6496	2	490	
6447	36815	A	6497	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQ/RKAPGKNLVYISLVLRA L*G*DLTHHIIILFPFFFL**PAPP REAHFVRTNGKEPELL
6448	36816	A	6498	54	553	
6449	36817	A	6499	131	803	TMFCQTGSSVRRVGPWPWAEN RTAMLRPCGGTFARKTRLSRLG NSPKMNEQQRGKRRGTPIIMFS KGLLRKHGVVPLAHIFMR\YK \KGDIVRHPRGMGYLVPKRELP PQSCYPWPKPGRSLTNVTPAML VGHLL*NKQV*GQRFLPKRNL MWRI*APFRHFLRSPRLASLKT CGRENGSRKKERKPKGGKVTW GFQLKRRHLGFPPQEEATFLLK EPIGGREP
6450	36818	A	6500	1	489	

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6451	36819	A	6501	29	2028	ENEEEGEKMASTDYSTYSQAA AQQGYSA\YTAQPTQGYAQT QQA YGQSYGTYGQPTDVS YTQAQTTATYGQTAYATSYGQPP TGYTTPTAPQAY\SQPVQG\YGT GAYDTTATATV\TTQASYAAQS AYGTPAYPAYGQQPAATCPT RTED*\NKPTETSQPQSSTGGYN QPSLGYGQSNYSYPQVPGSYP MQPVTAPPSYPPTSYSSTQPTSY DQSSYSQQNTY GQPSSYGQSS YGQQSSYGQPPTSYPQTGSY SQAPSQYSQQSSSYGQSSFRQ DHPSSMGVYGQESGGFSGPGE NRSMSGPDNRGRGRGGFDRGG MSRGGRGGGRGGMGSAGERG GFNKPGGPMDEGPDLDLGPPV DPDESDNSAIYVQGLNDSVTL DDLADFFKQCGVVKMNKRTG QPMIHIYLDKETGKPKGDATVS YEDPPTAKAAVEWFDGKDFQG SKLKVSLARKKPPMNSMRGGL PPREGRMPPPLRGPGGPGGP GGPMGRMGGRGGDRGGFP PRGSRGNPSGGGNVQHRAGDW QCPNPGCGNQNFWRTECNQC KAPKPEGFLPPFPFPGDRGRG GPGGMRGGRGGLMDRGGPGG MFRGGRGGDRGGFRGGRGMD RGGFGGRRGGPGGPPGPLME QMGRRRGGRGPGKMDKGEH
6452	36820	A	6502	1	693	
6453	36821	A	6503	3	657	
6454	36822	A	6504	1	434	
6455	36823	A	6505	208	443	

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6456	36824	A	6506	3	2650	LLPAFLLLCSDSHFLQFCSQFAP RKTQGGSGSVNNIQANIIAKKSN NHLMKKNDQKFKDLPQMAGH PIHHQAQGPPGAKNPQEQRRP MGQTTLPAEQEESRVKCKNCG AFGHSARNKTCPIKRWSGALPL QVLGSHKEKENLKPAKAQLPFT TPGPFTTNDREKERSPSSTMNPS EMQRKASPRRWKHHNQTPSIH KVNKMVMSEEQMKLPSTKKA EPPTWAQLKKLTQLPKKSLEN TKVTQTPENTLLAALMIVST/A GAAAANYTYWAYVFPPLIRA VTWMDNPIEVVNNSAWVPGP TDDRCPDKPEEEGMMINISTGY RYPPICLGRAPACLMIPAIONWL VEVPTVGTTSRFTYHTGLLTFR DVAIEFSQEEWKCLDPALEDSY TRRKANSCGKPYKCNECGKAF TQNSNLTSHRRIHSGEKPYKCS ECGKTFTVRSNLTIHQVIHTGE KPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFRGH SNLTTHQLIHTGEKPFKCNECG KLFTQNSHLISHWRIHTGEKPY KCNECGKAFSVRSSLAHQTIHT GEKPYKCNECGKVFRVGRGVSI GTTCLLSVFQVITVSSRKSASP ENRATQSILAPPTSRGSGPGP ASVLRRLAQTRKRMAWTESCT AACAFPSCLVLLYRGRGVPTDL QVPAPLFSTQSKLKRPGSRTKSS
6457	36825	A	6507	54	360	CSTMNPSEMQRAPRRQRHRS RAPSAHKMNRMVMSEEQMKL PSTKKAEPPTWAQLKKLTQLA KKK\LENTKVTQTPENMLLAAL KTVSTVSAGVPSSSEED
6458	36826	A	6508	525	3656	SSTMNPSEMQRKAPRRRRHR NRAPLTHKMNMVMTSEEQMK LPSTKKAEPPTWAQLKKLTQLA TKYLEN\TKVTQTPENTLLAAL MIVSMVSLPMPAGAAAANYT YWAYVFPPLIRAVTWMDNPIE VYVNNSAWVPGPTDDHCP\AK PEEEGMMINISTGYRYPPICLGR APACLMIPAIONWLVEVPTVGT TSRFTYHTIDLMTEKWVVLASV EVLLRFPLKPGEDPTARYVSNK KCQPSVDWPTTISRGRGY
6459	36827	A	6509	1	246	
6460	36828	A	6510	1	246	

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6461	36829	A	6511	1	279	
6462	36830	A	6512	1	363	
6463	36831	C	6513	109	245	
6464	36832	A	6514	2	429	LMTFCWDTPRQSGVPRERMPH TGTWRTVGIRCPKKLRSANSS MMRGKVQPFPR/DIQA YGAAPF EDLQVDFREMPKCGGNKYVLV LGRTYSGWVEAYPTRTEKTRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAK
6465	36833	C	6515	31	895	
6466	36834	A	6516	2	4735	
6467	36835	A	6517	263	418	
6468	36836	A	6518	120	295	YDPLPTWILGKISQRGAEEPAQ HPGCQL*LPPP/SPRPTSSSPSCA GLTSVSPRPFPR
6469	36837	A	6519	1	1758	MKIRRRFPSSLQLSADLQVPVR KAPRQGVSQEKRTKPSLELMIS GTISQEDIRNNVTRGCTPPAIQR VISSPLLAIRNNVTEGVYTPCD TGGRVHLPVILLISRDGGHDIS FNIAVDVHSPCDTDPNIQGVVEY DMTPNIAMNVQPPGTISQKRCT LPAILGLISYASSVNIRSNITGWL YIDRYVGSHVILYPLGIRMGVT GEMKGERRRGLHAATKWLEE HAPADYQNPQEYGR TQLPGTQ PQLDPHEREDMQRLNRDREAL LEGFKRGAQKATNVNKVSEVI QGKEESPAQFHQRLCEACAKQ VLVNGDAVSREEKRKENERQA RRNADLLVSCSNQSGPPKEARE ELWTKDYRPGQDLRLLSQATL TFHPTVPSPTLLGLLPAEDSWF TCLDLKDAFFPIRSAPESQKLFA FQWEDPESALAKTVRQRCVSC RQHHA\GKVQPFPR/DIQA YGA AAFEDLQVDFTEMPECGGNKY LPVLGRTYSGWVETYPTRA EK AREVTRVLLRDLIPRLELPFRIG SDNGPAFVADLLQKTATVLGIT RKLHAASRPQSSGKGIQNNRTG GVYTPCDIESHVILFRSGY
6470	36838	A	6520	1111	1342	MFVPHIGFQNTAALCLRLGLV FP*PVGFPA GSCLLI*WNRHWH VPDFSCVTTPQEWCGGVSDVC CGHPHAEPFHLQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6471	36839	A	6521	1	1144	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFVNRDAVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRALAATALLVQEANKLTLG QKLNKASRAVVTLMNTKGHH WLTNATLTDYQTLLCENPRITIE VCNTLHPATLLPVSKSPVKPGC VEVLDSIDSSRPDLWDQPWASV DWELYLDGSSFFNPQGEVEG\S RGDTSELPPCWVCGIPALTQRL EKQHLPPSGHQGSLKHLIWDLL LLTKKRTFSSMI
6472	36840	A	6522	1	554	
6473	36841	B	6523	63	620	
6474	36842	A	6524	1	796	SRTKNYQPVQDLRLHQAKL FHPTVNPSTLLGFPPAEDSWFT CLDLKDAFFPIRLAPERQKLFAF QWEDPESGWPPCWRALAATAL LVQEANKLTLGQKLNKASRA VVTLMNTKGHHWLTNATLTD YQTLLCENPRITIEVCNTLHPAT LLPVSKSPVKPGCVEVLDSIDSS RPDLWDQPWASVDWELYLDG SSFFNPQGEVEG\SRGDTSELPP CWVCGIPALTQRLKQHLPPSG HQGSLKHLIWDLLLLTKKRTFS
6475	36843	A	6525	3	2640	
6476	36844	A	6526	2745	3732	IRIGKNYFKVHMEPKKSPHRQV NPKPKEQSWRHHTT*LQTILQG YSNQNSMPGPTPQ\PSTPAPGG NLRNPQSSDLLQVTKQQGQAL AIQREAPLHRIPAPEAIPWYFQP QPATQLGSPVDPPSSAMM/SR RAHRSRGPDRQGYPLQGD*PGE PRPQEH*RGHSQERLPSSEKQTP ICPPAQATQHPEEPDAHQPYKH LFQVCAHQGHPVAQRRN*PGY WERYHSAEDPELQPILAGLSLS MYLVTVLRNLLIS
6477	36845	A	6527	1	1860	
6478	36846	A	6528	1	1458	
6479	36847	B	6529	1	1503	

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6480	36848	A	6530	3	515	TISQKRCTLPAILGLISYASSVNI RSNITGWLYIDRYVGSHVILYP LGIRMGVTGEMKGERRRGLHA ATKWLEEHAPADYQNPQEYGR TQLPGTQPQLDPHEREDMQRL NRDREALLEGFKRGAQKATNV NKVSEVIQGKEESPAQFHQRLC EAYRMYTPLDHDSPENQRMH MALVRQSAEDMRRLQKQAG LAGMNPSQLLEIASQVFVNRDA VSPKENSKEGGQARRHDDL SPVEPDCVEVLDSIHSSRPDLRD QPWPSGDW/RTICGWEQLLQPP RRERCRCVCDNPGH/WLLKPHR CPRPLQARKLNSLLSLGP*NSTR DCVRPIVCILPLITIALKISA
6481	36849	B	6531	96	2524	
6482	36850	B	6532	61	2025	
6483	36851	A	6533	674	2913	
6484	36852	B	6534	120	1849	
6485	36853	A	6535	1	426	
6486	36854	A	6536	2	475	
6487	36855	A	6537	1	501	
6488	36856	A	6538	15	593	SMWWNSAREPCPWRIVDDCGG AFTMGVIGGGVFQAIKGFARNAP VCRLLEAPLFIYSCSRVSPTV NVSSERAESRPTLFMAVSLHMA WCLAHIGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLRGKEDPWSITSGA\LTGA VL\AARSAPLAM\VGSAMMGGI LL\ALIEGVSILL/TR*TATV
6489	36857	A	6539	2	557	RRFRASAMEEYAREPCPWRIVD DCGGAFTMGVIGGGVFQAIKG FRNAPVGIRHRLRGSANAVRIR APQIGGSFAVWGGLFSTIDCGL VRLR\GKEDPWSITSGA\LTG AVL\AAR\SGPLAMGGLQQ*WG GILFAPHLRAFGILLTRYTAQ\Q FRNAPPFLEDPSQ\LPPKDGTPA \TGYP\SYQQYH
6490	36858	A	6540	223	2274	

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6491	36859	A	6541	2795	3762	FLHFHLRNAVPHQQWNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNEMKREGKFREKRIKRNEQ SLQEIWDYVVKRPNLRLIGVPES DGENGTKLENTI.QHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVEMKEKMLRA AREKGRVTLKGKPIRLTADLSA ETLQARREWGPFIENILKENNFQ PRISYPAKLSFISEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6492	36860	A	6542	245	1293	TGAVPIRPSWQRWGKNRTEKL ETLKRRAPLLLQRNAVPHQQQ NKAGWRMILTS*EKKASDDQIT LSYGRFTFKPK/DKEVENFEKNL EECITRITNTEKCLKELMELKTK APELREECRSLRSRCDQLEERV SAMEDEMNEMKREGKFREKRI KRNEQSLQEIWDYVVKRPNLHLI GVPESDVENGTKLENTLQDIIQ ENFPNLARQANVQIQEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTLKGKPIR LTADLSAETLQARREWGPFIENIL KEKNFQPRISYPAKLSFISEGEIK YFIDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
6493	36861	C	6543	116	283	
6494	36862	A	6544	51	281	KSQNQLLSSKGEYADGQQDQV SIPAPSPYTLSGPQTQSCPVRPE LGL*GASSAVQAPAVRYLTRFL LFVMSNLHSP
6495	36863	B	6545	1	897	
6496	36864	B	6546	91	8030	
6497	36865	A	6547	126	362	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6498	36866	A	6548	936	2064	ERADCLFKRKTTNNQKGHLHRK PICTSPSSKTKSR*NHKDGEKTE QKNWKL*NAERLSSS/IRNAV HQQQNKAGWRMILTS*EKKAS DDQITLSYGRTFKPK/DKEVENF EKNLEECITRITNTEKCLKELME LKTARELHEECRLSRCDQL EERVSAMEDEMNMKREGKFR EKRIKRNEQSLQEIWDYVKRPN LRLIGVPESDVENGTKLENTLQ DIIQENFPNLRQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MKEKMLRAAREKGQVTLKGG PIRLTADLSAETLQARREWGPFI NILKEKNFQPKISYPAKLSFISEG EIKYFIDKQMLRDFVTTRPALK ELLKEELNMERNNRYQPLQNH
6499	36867	A	6549	1	767	MAGAPPPASLPPCSLILDCASN QRDSVGVGPSEPGVGYSLVVR RFLSRSEKRNIRVGVTFRSSEM NPVPQMEMQKSPSSASLTGA VDRSCSYSAILAPPLGFCFYPLY ENSTLQSAKKRDAELANGALGI IELNNDYTLKKVMKPLITSNTV TDEIERANVFKMNGKWYLFDT SRGSKMTIDGINSNDIYMLGY/D IKLFNRPLQAAEQNRACAANGS *SKRCDIHLLSLRSAASQRQOC GYHKLHDKQRLLRG
6500	36868	B	6550	50	327	
6501	36869	A	6551	333	1301	FLHFHLRNAVPHQQWNKAGW RMTLRS*EKKASDDQITLSYGR TFKPK/DKEVENFEQNLEECITR ITNTEKCLKELMELKTKARELR EECRSLRSRCDQLEERISVMED EMNMKREGKFREKRIKRNEQ SLQEIWDYVKRPNLRLIGVPES DGENGTKLENTLQHIIQENFPN LARQANVQIQEIQRTPQRYSSRI AIPRHIIVRFTKVMKEKMLRA AREKGRVTLKGGPIRLTADLSA ETLQARREWGPFIKILKENNFQ PRISYPAKLSFISEEEIKYLTDKQ MVRDFVTTRPALKELLKEALN MERNNRYQLLQNHAKF
6502	36870	A	6552	352	2304	
6503	36871	A	6553	1	1617	

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6504	36872	A	6554	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAFQPGQQSETVSEK KKKTRKKRKKRKKRKKKKKK KKKKKKKKKKKKKKKKKKKK SE*DRLGKKEEDEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEI
6505	36873	A	6555	5	156	RKKGGG/EREEEGEGEEEEEE EEEEEEEEEEEEEEEEEEVVL LTPGTGAEDFKKH
6506	36874	A	6556	1	279	
6507	36875	A	6557	3	120	TEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEGEEEEEEEE
6508	36876	A	6558	3	123	
6509	36877	A	6559	239	432	CLWLFQEEEEEEEEEEED*EE EEE/EEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHRVGI
6510	36878	A	6560	1	588	
6511	36879	A	6561	1	204	
6512	36880	A	6562	75	234	
6513	36881	B	6563	100	2510	
6514	36882	A	6564	47	4976	
6515	36883	A	6565	3	4755	SCRCRRRRRGAPAMAQILPVR FQEHFQLQNLGINPANIGFSTLT MESDKFICIREKVGEQAQVTIID MSDPMAPIRRPISAESAIMNPAS KVIALKAGKTLQIFNIEMKSKM KAHTMAEEVIFWKWVSVNTV ALVTETAVYHWSMEGDSQPM KMFDRTSLVGCQVIHYRTDE YQKWLLLVGISAQQRNVVGA MQLYSVDRKVSQPIEGHAAAF AEFKMEGNAKPATLFCFAVRN PTGGKLHIIIEVGQPAAGNQ
6516	36884	B	6566	47	482	
6517	36885	A	6567	1	555	MNARPHKVD/GRVVEPKRAV* EDSQRPAFVAGIKEDTEEHHLR DYFQQYGKMEVIEIMTDRGSG KKRGFAFVTFDNHDSVDKTVV QKYHTANDHNCEGRKALSKQE MASASSSQRGHSSSGNFRGGHG GGFGGNDIFGYGENFSGHGGFS GSCGGGGYGSSGGGYNEFGND GSNTGGGGSYNDFGN
6518	36886	A	6568	1	645	

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6519	36887	A	6569	2	944	GRGLRKLFIGGLSF*FIDESLKS QVGEWGTLTDCVVMRDPNTK RSRGFGFVTYAT\VEEVDAAMN ARPHKVDGRVVEPKRAVSRED SQRPGAH/TLVKKIFVGGIKED TEEHHLRDYFEQYGKIEVIEIMT DRGSGKKRGFA\FVTFDDHDSV DKIVIQKYHTVNGHNCEVRKA LSKQEMASASSSQRGRSGSGNF GGGRGGGFGGNDNFGRGGNFS GRGGFGGSRGGGGYGGSGDGY NGFGNDGSNFGGGGSYNDFGN YNNQASNFGPMKGGNFGGRSS GPYG\GGGQYF\AKPRNQGGY GGSSSSSYGSGRRF
6520	36888	A	6570	1	1512	
6521	36889	A	6571	2864	3677	RCQLDHLPCCHLCCCCHR/CIPSL RDPQQAPGSTRLSRAPHIESRV GRKPPEEPANPTMNSLTLRDKQ /HDASTC/DWKRAL*VPESGLPR ALLKYIRCPNMSSAQKPRELSK RRN*K*PCVKRTPFRPT*E/DLP YSGKKTGVKGLICPVPGTAVK APQRPPGPQQPHAPQSASETA WFPVADRRVFSENPGWTAAKT LGTLSGPCQAGAGVGRQDGD GQELTSQEKPWVGRKIPEHAV ADKGYRQCCGAGEARGGPVF WAAAPRTSWQQASYT
6522	36890	A	6572	1	666	
6523	36891	A	6573	2926	3304	EYSLGHRHYNWKC*ALGQKDQ VTFATKFAPTSHRTRKQPELWR /QDPGSYGEKQPAWCSVPPGRF SGGLVGLGFLDGGIVVQPLRRP CCQDCVCGFPTLRSSTKTSTEL GPSFLPCERQGKETISVT
6524	36892	A	6574	1	665	

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6525	36893	A	6575	3	1121	SSTFPRMPWRLVTSWTAYIPEL EGSTSDPDSPAQAQKGEKPVKL GNSLWGSHTPEVPRPGTGPRPL SFVHRLPTMDPHKVNALRAFV KMCKQDLSVLHTKEMHFLRE WVESMGGKLSPATQKVKSEEN TKEEKPDSSKKVEEDLKADEPSS EESNLLIDNEDVIEPDPAQEM GDENAEITEEMMDQANHKKVA AIEALNDGELQKAIDLFTDAIKL NPQLAILYAKRASVFIKLQKPN AAIRDCDRAVEIY\SAQPYKWR/ GKYEQKREEREIKERIERVKKA REEQERAQREEEARGQSVAQY GSFPDGLPGGMLEMRGGMPGK PGITGLNEIFSDPEVLAQVQDPK VMV/AFFQDVAQNPNMSQYQ GNPKVM
6526	36894	A	6576	3	1351	PEAGGERERERAQREEDSTROS RAQYGSFTGGFPGMPGNFPG GMPGMGGPSARSRAQRLSLE PDRSPPSYAHHLPTMDPRRVNE LRAFEKMCKQDPSVLHTEEMR FLARECVESMCGKVPPATHKAM SEENTTEEKPDSEKAEDLQAD\ EPSSEESDLRKLIEGVIEPDTD APQEMGDENAEIPEE\MMDQA NDKKVAAIEALNDGELQKAIDL FTDAIKLNPRLAILYAKRASVF VKLQKPNAAIRDCDRAIEINPD SAQPYKWRGKAHRLLGHWEE AAHDLALACKLDYDEDASAML KEVQPRAQKIAEHRRKYERKR EEREIKERIERVKKAREEHERA QREEEARRQSGAQYGSFPGGFP GGMPGNFPGMPGMGGGMPG MAGMPGLNEILSDPEVLAAMQ DPEVMVAFQDVAQNPNMSK YQSNPKVMNLISKLSAKFGGQ
6527	36895	A	6577	2	433	GPPLNLSSPRGGILKTYGCELCG KRFLDSLRLRMHLLAHSAGAK AFVCDQCGAQFSKEDALETHR QTHTGTDMAVFCLLCGKRFAQ QS\ALQQHMEVHAGVRSYICSE CNRTFPSHTALKRHLRSHTGDH PYECEFCGSCFRDE
6528	36896	A	6578	1	687	
6529	36897	A	6579	2	449	

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6530	36898	A	6580	852	1084	TDAGCYAARQCGTAVPSRDV HIRHQGTPVPQF*TAPLRARS/E VSPARRRARM LSSSASFASANIT TSSAWSDTLQP
6531	36899	A	6581	1	681	
6532	36900	A	6582	1	483	
6533	36901	A	6583	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
6534	36902	A	6584	1	678	
6535	36903	A	6585	3	634	
6536	36904	A	6586	4	479	CSAKTAIRGVSECLIH HHGIPHS TASDQGTHFTAKEVWQWAYA HGIHWSYHVLHHPEEA/GKER WNGLLKSQLQCQLGDNTLQG* GKVLQQAVYVLN*HPIYGTVSP IARIH/GSRNQG/VETELTPLTITP SDPLAKFLLPVPPTLHSAGLEIL VPEGEIR
6537	36905	A	6587	1	1539	MVGKAKWKPLELPLPRKMVSQ KQYRILGGTAEISVTIKDLKDA RVVIPSTSPFYSPWPVQKIDGS WRMTEDYRKLNQVVTPTAAA VPDVVSLLEQINTSPGTRYAAID LTNAFFSIPFHKAHQKLFAFSW QGQQYTFTVLPWGDINSPALCH NLIRDPDCFSLPQDITLVHHID DIMLTGSREQEVADTRDFLVKD KLLHLAPPTTKKQAQHLVGLF GFWRQHIPLLGVLQPIYRVTQ KVASFEWSQEQTALQQVQAA VQAVLPLGPYNPADPMVLEVS VADRDVCSLWQAPIGESQWR PLGFWSKALPSSADNYSPFERQ LLA/CHKVGHAQQHSISKWK*Y IHDRAQADYHPWTQACLIHCQ GIPHSIASDKDAHFTTKEVWQW THAHEIHWCYHVLHHPEAAGL TERWNRLKSQLQRQLGDNTL QSGKVLQKAMYALNQHPYIG TISPIARIHGSSNQGEVAPLTIT PSDPLAKFLLCVPTTLRSAGLD VLVPEGGMTQQQFH

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6538	36906	A	6588	1	566	MGRNQSRKAENSKNWSASSPP KDHSSLPAMEQSWMENDEFDEF TEVGFRRSVITNFSELKEHVLT YCKEAKNVEKRIYRSRNQGM EVKVAPLTITPSDPLANFFAS VPATLHSAGLEVLP EGGTLP LPGDTTMIPLNWK LRLRTGYFGLLLRLS QQAKKGAMVLA/GV VDPDYQNEISLLHN*GKTHDH
6539	36907	A	6589	221	357	
6540	36908	C	6590	228	342	
6541	36909	A	6591	745	849	
6542	36910	A	6592	1	240	
6543	36911	A	6593	2	495	FVRLVGRGDCDPLLSVCLTTMP LYEGLGSGGEKTA VVIDLGEAFTKCGFAGETG PRCIIPSGIKRAGMPK PVRVVQYNINTEELYSYL KEFIHILYFRHL\LVNPRDRRV\V IIES\VLCP\S\HFREDTHSCFFFKY FE\VPSVLLA\PS\HLMALLTLGI NSWHGPRL
6544	36912	A	6594	1	579	
6545	36913	A	6595	1	621	
6546	36914	A	6596	1	351	
6547	36915	A	6597	1	447	
6548	36916	A	6598	114	880	
6549	36917	A	6599	1	2625	
6550	36918	A	6600	1	1674	
6551	36919	A	6601	1035	2235	QTHSQYHTEWAKTGSIPFENW HKTGIPSLTTPIQHSVGS SQGNQAGEGNGKGY SIRKRGSIQVPV CRRHD/VYI*KTPLSQ PEISLS**ATS AKS/LGYKINVQKSQ AFLYTNNRQTESQIM SELPFTIASKRIK YLG IQLTRDVKDLF KENYKPLLKEIKED TNKWNIPCSWVGRIN IVKMAILPKVIYRF NAIPIKLPM PFFTELEKTTLKFI WNQKRARITKSIL SQKNKAGGITLPDF KLYYKATVTKTAWY WYQNRDIDQW NRTEPSEITPHIY NYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPY TKMNSRWIKDLN VRPKTIKTLEENL GITIQDIGMGKDF MSKTPKAMATKAKI DKWDLIKLKS FCTAKETTIRVN RQPTK

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6552	36920	A	6602	369	1917	AGEGNKGYSIRKRGSQIVPVCR RHD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQTFLYTN NRQTESQIMSELPFTIASKKIKY LGIQHTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKTTSKFIWNQKRARITK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYLYQNRDIDQWN RTEPSEMTPTHYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPKKWEKIFATYSSDKGLISRIY NELKQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKKHMKKCS SSLAIEMQIKTTMRYHLTPVR MAIIQKSGNNRCWRGCGEIGTL LHCWWDCCLVQHILTHRWEL NNEITWTQEGEYHTLGTVVGW GEGGGIALGDIPNAR
6553	36921	A	6603	1	2781	

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6554	36922	A	6604	1320	2403	LQTLQVYSNQNSMVLVVKQR YRSMEQNRLRN NATYLQLSD L*QT*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NSKKQSPSP PPKERSSSPATEQSWTENDFDE LREEGFRRSNYPELREDIQTGK KEEIQTIREYYKHL YANKLEN LEEMDKFLNTYTL PRLNQEEVE SLNRPITGSEIVAVINSLPTKKSP GPDGFTA EFHQRYKVELVPFL KLFQSIEKEGILPNSFYEASIIIP KPGRDTIKKENFRPISLTNIDAKI LNKILANRIQQHIKKLIHYDQV GFIPGMQDWFNIRKSINVIQHIN RTKVKNHMIISIDAEKAFDKIQ QRFMLKTLNKL AQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGR LNIVK MAILPKVIYRFNAIPIKLPMTEFF TELEKTTVKFIWNQKRACITKSI LSQKNKAGGITLPDFKLYYKST VTKTAWY WYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSR WIKDL NVRPKTIKTEENLGITIQDIGV DKDFMTKTPKAMATKPKIDKW DLIKLSFCTAKETTIRAFDELD DVHPHEEIEACRVWQNYGTHP
6555	36923	A	6605	2202	2515	KSLQCEHSSH IQDLPLACLGLR KHYMVAQYL*HSHS/ASGGGSR YDVLKISVSCSSTIDI*LAFVSLG *DKRTS**TNLAESSPNFFHWV WIFLASKKFCSVPAR
6556	36924	A	6606	1934	2077	AIPFRIQAWARTSCPKHKKQWQ QKPKLTNGI*FN* RASAQQKKL PSE
6557	36925	B	6607	1	2325	

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6558	36926	A	6608	1524	2877	IRKRGSQIVPVCRRHD/VFV*KT PSSQPKISLS**ATSAKS/LGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFTELEKTTL KFIWNQKRARIAKSILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQCNRTPESEIMPH IYNLIFDKPERNKQWGKDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGITIQDIGVGKDFMSKTP KAMATKDKIDKWDLIKLSFC TAKETTIRVNRQPTTWEIFAT YSSDKGLISRIYNELKQIYKKKT NNPIKKWAKDMNRHFSKEDIY AAKHKMKCSSLAIRERQIKT TMRYHLTPVRMAIKKSGNNR DMDEIGNHHSQ
6559	36927	A	6609	1	2226	
6560	36928	A	6610	1	674	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQEN/CPQSSKAGQSD SGNTENATKILLEKSNSKTHNC QIHQS
6561	36929	B	6611	1	5175	
6562	36930	A	6612	1666	2032	LQTLQGYSNQNSMVLVPKQR YRSMEQNRALRNNATYQLQSD L*QT*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKH*T*NHKNPRRKP RHYHSGHRHGQGLHV
6563	36931	A	6613	1596	2169	AGEGNKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**AT SAKS/LGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNIPCSWVGRINIM KMAILPKVIYRFNAIPIKLPMFT FTELEKTKVHMEPKKCPHHQG NPKPKEQSWRHHTT

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6564	36932	A	6614	1667	3103	AGEGNKGYSIRKRGSQIVPVC *HD/VYI*KTPLSQPKISLS**ATS AKS/LGYKINVQKSQAFLYTNN RQTERQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLQE IKEDTSKWKNVPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMFP FTELEKTILKFIWDQKRARIAKS ILRQKNKAGGITLPDFKLYYKA TVTKTAWYWYQNRDIDQCNR TEPSEITPHIYNYLIFDKPEKNK QWKGDSL FNKWCWENWLAIC RKLKLDPFLTPYTKINSRWIKD LNIRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATNAKIDK WDLIKLSFRTAKETTIRVNRQ PTKWQKIFATYSSDKGLMSRIY NELKQIYKKKTNNPIKKWAED MNRHFSKEDIYAAKKHMKKCS SSLAIEMQIKTTMRYHLTPVR MAIIKKSGNNRLTLLNNHNNPQ PLISIKEPREKEELNLQV
6565	36933	A	6615	3134	3288	
6566	36934	A	6616	1	2630	
6567	36935	B	6617	877	7936	
6568	36936	A	6618	2	1589	
6569	36937	A	6619	1	240	
6570	36938	A	6620	200	486	
6571	36939	A	6621	1	558	
6572	36940	A	6622	1	3885	

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6573	36941	A	6623	1	2302	KL PVTNRAAHGLCASLGPDFM TFKVPSSWRHSDSICREWFTLA GAPSRDVLLVSAIITVLSVTVV LCGLCHWCQRKLGKRYKNSLE TVGTPDSGRGRSEKKAIVSRP CPPAKASATHPTCKSPRSQEK VESPGDLDRDFWNNNESTVQQ KWSSYPPEFILNISPYAPYGDP RLSLNGTLLSGAKVAAAAGLA VEREGRLEKPPAPVPPPGEDAL RSGGAAPSEPGSGGKAGRGRW RTVQSHLAAGKLNLSNFEDSTL STATTLESIPSSTGEPKCQRPT LMRQQLQPLSQHQRGRQPS QPTTSQSLGQLAHMASAPGP NPAYGRGQARQGTSAKSKYR AAGGRSRNPGSWDHVVGQIR NRGLDMKSFLTSSRAAKWNF TNSETVPALDLDSAVVLIPWISS KEDTGDSHYGRVAIYHKGLSFS SDGLVYPGAKGREGRMVVLSL VLGLSEQDDFANIPDLQNPQTQ QNQNAQGDKRLPAGGKAVNT APVPGQTPHDESDRTEPRSSV SDLVNSLTSEMLMEDWPPAVF SSGWAIAAHPASLHSPHIGYSF LAARGGLLFEADFCWCKRSG STFPDCDGVANLAATEMALSQ LRFSKETAMRESLVMLSPGSEE DEAHEGCSRENLGRIQFSVGYN FQESTLTLKIMKAQELPAKDFS GTSDPFVKIYLLPDKKHKLTK
6574	36942	A	6624	1	576	
6575	36943	A	6625	1	155	
6576	36944	A	6626	4746	5258	DAGAQPSPRYLIYHQPSRFFRI TSTVTPFSKPISSLLWL*/GLHG DILL/RLLQS*RC*CRSHPEYHSG PPGRWQGSPAPQKCSRTTSRS RSSR*HPPPPRPGGSAPSSPASYS WTPPRTVPGSWARRWRRHLRS PSWATQPSWTATLWSQPLWRL KWEDCLSPGRSRLQ
6577	36945	A	6627	1	588	

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6578	36946	A	6628	444	1056	GPLLREPHQLCHFPVAGFVLDA GLPEAAAAPHDRGPFLAGPQA AGQHPAQVAHQPRAAAQQRQ GRRAREEAGAQAQEEPRGPQE RRRRLAEGLRRCGHPAGRDG RGGYRRAAQGPARGGRTPEWQ QSGGARRTPSVGHPRRARAD\W CLTGANDALSCSSPTCGKFLKT VSKVPVCRRGLAVNRKEAEGR SSESPTSSATFQSPALSWMLVS QRLLPHMIGAQSSPGPKRPGN TLRKWLTSFVRLSSGKADGH VKKLAHKHKSREVRKSADAG SQKDSDDSAATPQDETVEEDTV AQPRGRREGAGRQSGSRAAGP GGRRASAIRGGHARTDVGKRN GTRTRKELMPLHGKRKDAAEH DEPTSASRPAGERPELTAAVQ TEYNCSFPS
6579	36947	A	6629	128	1103	
6580	36948	A	6630	1	602	
6581	36949	A	6631	3	1618	
6582	36950	A	6632	1	602	
6583	36951	A	6633	3	1618	
6584	36952	A	6634	1	912	
6585	36953	A	6635	195	396	VLPLHRQI**LLH*SKKHNHYK GKQQDLR/CSSTVPRRPQGILPII SFSNVPVGSRRLLKAPLVFIGPG

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6586	36954	A	6636	2	1813	FNTPLSTLDRSSRQKVNKDIQD VISALHEAGLIDIYRTLHPKSTE YTFFSAPHHTYYKIDHIVGSKA LLSKCKRTEITTNCLSDRAIKL ELRIKKLTQNYTTTWKLNLL SDYWVNNEMKAEIKMFFETNE NKDTMYQNLWDTFKAVCRGK FIAVNAYKRKQERSKIHTLSQ LKEPEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKISVSRSW FSERINKIDRLIARLMKKKREK NQIDAINKDKGDITIDPTMQTT IREYYKNLYANKLENLEEMDK FLDTYILPRLNQEEVELPNRPIT GSENEAIIINSLP/TKKSPGPDEFT AKFYQRYKGLARAIRQEKERE DTQLGKEEVKLLLFAEDMIVYL ENPIVSAQNLLKLINNFSKVSGY KINVQKSQAFLHTNNRQTESQI MSECPLTIASKRIKYLGIQLTRD VKDLFKENYKPLLNKIKEDTN KWKNIPRSWLGRNNIVKMTILP KVI/YKKTTLNFIWNQERARIAK TILSKKNKAGGITLPDFKLYYK ATVTKTARYWTLTIKKGSVWPI SLKSEKRGHRTRPLWLCHND VQGELLKTIQFLFGSPLGHSSLD
6587	36955	A	6637	1	2988	MPPHSEQPHSPSTRQKRKVPLF VRQCPSFVIQAPKAKMDTFDGR KKQFTRFLFLFSMDQLGQGRFS MQTLSFALAVYRKDSPLVACQ VQALGNLEPSSVEAHVSSHGIAI DRKGWHVSLFSIQPGDCFPKAL VEDSPDRARRQQSSKEEGWC RDRRRLKFHSSKGAAAIVVKS KKYESPSFGVCFESLLNPPRLTS RREKTISSSKRCRQCHAEETTV VFWAKESQTGEQTGRGAGQRR MGMIICKACSMPLPAE
6588	36956	B	6638	362	1463	
6589	36957	A	6639	1	1061	
6590	36958	A	6640	1	1581	

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6591	36959	A	6641	46	862	AAFPAPRTLFFLSRPLRPTACAA FRPEFWRLNMKLPARVFFTLGS RLPCGLAPRRFFSYGTKILYQN TEALQSKFFSPLQKAMLPPNSF QGKVAFITGGGTGLGKGMTTL LSSLGAQCVIASRKMDVLKAT AEQISSQTGNKVHAIQCNVKYP DMVQNTVSELIKVQGHPTVIT N*STERSSISFLLPTIYA*DWFRF CSTQVLLPKQVWKPMKSLAA EWGKIWNAIQC
6592	36960	A	6642	1	2902	MVKGSLQQEELTILNIYAPNTE APRFIKQVLRDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKINKD TQELNSALYQADLIDIYGTLP KSTNEYTFF\SAPHHTYSQNWTT IVGSKALLSEHKRTEIITNYLSD \HSA\KLELRIKKLTQN\RSATW KLNNLLLNDYWVHNDMKA EI KMFETK\ENK\DTTYQNLW\DT FKAVCRGKFIK\NAHNRKQE\ RSKIDTLTSQLKELEKKEQTYL KASRRQEIT
6593	36961	A	6643	1	5127	
6594	36962	B	6644	1	3570	
6595	36963	A	6645	1	3663	
6596	36964	B	6646	143	3122	
6597	36965	A	6647	1	3235	
6598	36966	A	6648	1	3249	
6599	36967	A	6649	1	3297	

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6600	36968	A	6650	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPI TGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLCLKFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDA EKAFDKIQPFMLKTL NKL GIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSOKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKKSGNN
6601	36969	A	6651	1	3402	
6602	36970	A	6652	1	3288	
6603	36971	A	6653	1	3168	
6604	36972	A	6654	1	3516	
6605	36973	A	6655	1	3693	

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6606	36974	A	6656	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPGDVGLEADFSPSH TLKTQFFSCLAEFAAASCFFQR MNGFGMAMTTTTYSTGAAESPL PSCSIDQGDDTKLHRARSPGR FPAAAGIPAAAAPDGPPLSLLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWL RPTSHLPPCSSSAWW TEQTD AHLPLFLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAA MSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINS LR NKEVKGALKRGLRWRAAPQE
6607	36975	A	6657	1	3514	MELKTKARELREECRSLRSRCD QLEERV SAMEDENEMKREG KFREKRIKRNEQSLQEIW DYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQEI QRT PQRYSLRRATPRHII VRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
6608	36976	A	6658	3	3316	
6609	36977	A	6659	1	4794	
6610	36978	A	6660	1	3570	
6611	36979	B	6661	1	3384	
6612	36980	A	6662	1	3429	
6613	36981	A	6663	1	3780	
6614	36982	A	6664	1	3894	

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6615	36983	A	6665	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQRLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLEKEKQEQTTHSKASRRQE ITKIRAELEKETQ
6616	36984	B	6666	1	3145	
6617	36985	A	6667	1	4398	
6618	36986	A	6668	523	3852	
6619	36987	A	6669	1	3934	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSAEMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
6620	36988	B	6670	1	5215	
6621	36989	A	6671	1	7171	
6622	36990	A	6672	3	493	
6623	36991	A	6673	1	729	
6624	36992	A	6674	3	800	
6625	36993	A	6675	1	327	
6626	36994	A	6676	2	462	KSSWLEEDDDPVVARVNRRMQ HITGLTVKTAELLQVANYGVG GQYEPHFDFSRRPFDGLKTEG NRLATFLNYMSDVEAGGATVF PDLGAAIWPKKGTAVFWYNLL RTGEGDYR\TRHAACPVLVGCK WVSNKW\FHES\GQEFLRPCGST EVD

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6627	36995	A	6677	3	717	RHRLRNRLKDVGGGEAFYPLLE DDQSNLPHSNSNNELSAATLP LIIREKDEYQLNRILFDRLLKA YPYKKNQIWREARVDIPPLIRG LTWAALLGVEGAHAKYDAID KDTPIPTDRT/QLKWDIPRCHSV R*TVIHAPEGHAKFRRVLK\AW VVSHPDLYVWQGLDSLCAFL YLNFNNEALVYACMSAFIPKYL YNFFLKDNSHVIQEYLTVFSQM IAFHDPELS NHLNEIGFIPD
6628	36996	A	6678	1	508	
6629	36997	A	6679	1	888	
6630	36998	A	6680	2	584	
6631	36999	A	6681	2	152	QVAKGMDALLQHLEDCGYR/S SKKKAQICRQQVTKWGDGSAL MGTSTTASL
6632	37000	A	6682	733	894	
6633	37001	B	6683	1	1626	
6634	37002	A	6684	1	1971	MAQVWANDNPPGLAVNQAPV LIDVKPGAQPIRQKQYPVPREA LKGIPGTDYQPVQDLRLVN QATVTLHPTVPNPYTLLGLLA EDSWFTCLDLKDAFFSIRLAPES QKLFAFQWEDPQSDLGCILLY VDDLLGHSTAVECAKGMVDL LQHLEDCRYKMSKKKAHICRQ QVRYLGFTIRKGER\WEREKM AVGVLTQTVGPWPRPVAYLSK QLD/EVSKGWPLCLRTLAATAL LAQEADKLT LGQNLNIKAPHA VVTLMTEGHHWLTNARLTKY QSLPCENPHITIEVCNTLNPTTL LPVSESPGEHNCVEVLDSVYSS RPDLRDQPWASSVDWELYMD GSSFINSQGERCAGYAVVTLDA VIKAKLWLQGTSAQKAELIALT RAVELSEGQESLEELLGRYFYV SHLPFAKAVAQLCITCRQHNA RQSPTVSPHIQAYGAAPFEDLQ VDFTEMPKCGGNKYLLVLTCT YSGWVEAYPTRTEKPYKKGKN DPSCCKGQCNPTELVTNPLNP HWKKGERTVLGIDRARLDPRV NILVRGGEVYERSPEPVFQTFY DELNVPVPEIPGKTRNLFLQLA ECVAQPLNVTSCYVCGGTVTG YQWPWKARELVPVDPVPDEFL AQKNYPDNFWVLKPSITGQYCI
6635	37003	A	6685	1	1461	
6636	37004	A	6686	1	1005	

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6637	37005	A	6687	1	174	
6638	37006	A	6688	519	588	
6639	37007	A	6689	2	4527	GRAGLGWSSGGRGSRACSEGP AEARGREGDKGSAALSPPLPLT LGEEMAAERGARRLLSTPSFWL YCLLLLGRRAPGAAAARSGSAP QSPGASIRTFTPFYFLVEPVDTL SVRGSSVILNCSAYSESPSKIEW KKDGTFLNLVSDDRRQLLPDGS LFISNVVHSKHNPDEGYQCV ATVESLGTIISRTAKLIVAGLPR FTSQPEPSSVYAGNNAILNCEV NADLVPFVRWEQNRQPLLLDD RVIKLPSGMLVI
6640	37008	A	6690	1	879	
6641	37009	A	6691	407	594	
6642	37010	A	6692	1	3621	
6643	37011	B	6693	1	609	
6644	37012	B	6694	1335	1599	
6645	37013	A	6695	1	354	
6646	37014	A	6696	181	683	SRYFILLRKPTFPAMALLPVFL VTVLLPSLPAEGKDPAFTALLT TQLQVQREIVNKHNELRKAVSP PASNMLKMEWSREVTNAQR WANK/CTLQHSDPEDRKTSTRC GENLYMSSDPTSWSSAIQSWY DEILDFVYGVPKS/PQYCPAG NNMNRKNTPYQQGTPCPG
6647	37015	A	6697	199	969	
6648	37016	A	6698	1	564	
6649	37017	A	6699	153	427	
6650	37018	A	6700	1	978	
6651	37019	A	6701	3	419	
6652	37020	A	6702	9	255	VRAPAQGPDLAGRRRCGSGA SCTPSRGPASWSRSAAQVPRS SRWRAGSASS*/GRQPAPPTSQ PPRAQPFAQPPGPWPLS
6653	37021	B	6703	96	283	
6654	37022	A	6704	172	365	PTYHLYPCHFWYQHRTRRIPRK SERLFPTPPQLSWKGTWDY*I CLLCCNDSEGRDFLVLRVLK
6655	37023	A	6705	3	1171	
6656	37024	A	6706	2	740	
6657	37025	A	6707	256	461	
6658	37026	A	6708	1	414	
6659	37027	A	6709	1330	1386	YIDSILPK*NHDTLQSYCRYM\H SRQRAAS*PLSTGKLQCLGLD LVLC

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6660	37028	A	6710	207	1173	GGDRDRMTANHESYLLMASTQ NDMEDWVKSIRRVINGDLSCGGG IFGQKLEDTVRYEKRYGNRLAP MLVEQCVDIFRQRLKEEGLFR LPGQANLVKIELQDAFDCGKPK SFDSNTDVHTVASLLKLYLREL PEPVIPIYAKYEDFLSCAKLLSKE EEAGVKELAKQVKSLPVVNYN LLKYICRFLDEVQSYSGVNMKS VQNLATVFGPNILRPKVEDPLTI MEGTVVVQQLMSVMISKHDCL FPKDAELQSKPQDGVSNNEIQ KKATMGQLQNKENNNTKDSPS RQCSWDKSESP/TEKQHEQWIP HSSIRQQNQPKQEQWSQAI
6661	37029	A	6711	173	881	
6662	37030	A	6712	1605	1844	
6663	37031	B	6713	123	699	
6664	37032	A	6714	1	462	
6665	37033	A	6715	1	2607	
6666	37034	A	6716	1	918	
6667	37035	A	6717	1	549	
6668	37036	A	6718	1	687	
6669	37037	A	6719	1	258	
6670	37038	A	6720	90	1621	HGLDLRTMNRSRQVTCVAWV RCGVAKETPDKVELSKGGVKR LIAEAEKLQEEGGGSDEEKTG SPLEEGMQSARTQARP\REPLE\ DGDPE\DRTLDDDELAEDLD KYDEEGDPAETLG\ESLLGLT VYGSNDQDPYVTLKDTEQYER EDFLIKPSDNLIVCGRAEQDQC NLEVHVYNQEEDSFYVHHDILL SAYPLSVEWLNFDPSDDSTGN YIAVGNMTPVIEVWDLDIVDSL EPVFTLGSKLSKKKKKKGKKSS SAEGHTDAVLDSLWNKLIRNV LASASADNTVILWMSLGKPA ASLAVHTDKVQTLQFHPFEAQT LISGSYDKSVALYDCRSPDESH RMWRFSGQIERVTWNHFSPPCH FLASTDDGFVYNLDARSDKPIF TLNAHNDEISGLDLSSQIKGCL VTASADKYVKIWDILGDRPSLV HSRDMKMGVLFCSGCCPDLPFI YAFGGQKEGLRVWDISTVSSV NEAFGRRRERLVLSARNSSISGP FGSRSSDTPMES
6671	37039	A	6721	1	549	

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6672	37040	A	6722	1	1318	AKQQLNLRTHMADENKNEYA AQLQNFNGEQHKHFYVVIPQIY KQLQEMDERRTIKLSSECYRGFA DSERKVIPIISKCLEGMILAACS VDERRDSQMVDVSFKSGFEPPG DFPFEDYSQHIYRTISDGTISAS KQESGKMDAKTTVGKAKGKL WLFGKKPKPQSPPLTPTSLFTSS TPNGSQFLTFSIEPVHYCMNEIK TGKPRIPSFRLKRGWSVKMG/ AALEDFSHLPPEQRRKKLQQR DELNRELQKESDQKDALNKM DVYEKNPQMGPGLQPKLAE TMNNIDRLRMEIHKNEAWLSE VEGKTGGRGDRRHSSDINHLVT QGRESPEGSYTDDANQEVRRGP QQHGHNEFDDEFEDDDPLPAI GHCKAIYPFDGHNEGTLMKE GEVLYIIEEDKGDGWTRARRQ NGEEGYVPTSVIDVTLEKNSKG
6673	37041	A	6723	1	741	
6674	37042	A	6724	1	1063	MPFYISDLSICGDRILRALCPQD LPTYSLHSRGKMRASCSRKFLD NNSSRLVSCNMGALISIWGTTT PPLHATILDSQPTVHPPLAKDCL PCGLQASASDLRARALQRLCQ QLPWVGSQPHTRSPSPQRGGKT GLFAGLASSVSMRPASPPSPAA DSCSACRFFARRPPLRVTVVKP SSALALCVSISDSIPGNLKA LPAETRAQLHHAESLSQPPLQLRP FPKTSQAGDLQDLGPYVCVRK AVGKGDKQIRAVVKEHSVRSQ ERIWHPGITTANMPGHLGQNT ESGRDKLPMFGVWFPGRFWG LWVWRLP*LKLAAPCRPSRLR SSPISRRASTTRCLTVSGCPAAP
6675	37043	A	6725	25	573	
6676	37044	A	6726	1	483	

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6677	37045	A	6727	1	996	MVGKAKWKPIELPLLRKIVNQ KQYHIPGGVAKISATIKDLKDV GVVIPTTSPFNSPIWPVQKTDGS WRKWLS*QGQQFT/FTVLPHG YINSLALCHNLIRRLDHFSLPQ DITLVHYIDDIVLTGSSEGEVAN TLDLLTSLDWALVETECLTMG HQVTMQPELTIMNWALSDPSN YKVGCAQQHSIIKWKWYIRDQ ARAGTTCKWTAALQPLSRTS LKDSGERKSSQWAE LRAVHLI MHFAWKEKWPDPVQLYTD SWA VANGSAGWSGTWKNHDKWIA TTVIAQWAHEQSSHGSRNGGY TWAQQHGLPLTKADVATATDE CPICQQQRPTLSP
6678	37046	A	6728	2	1380	CLAGLFGFWSPCIPHLGVLLQSI YLVTQKAA/SSEWGPEQE KALQ EVQAAVQAALILEPYDPAGPVV LEVSLADRDAVWSLWQAPIGE SQQRPLGFWSKALPSSA/DHKA CHAAQHSIIKWKWYIHDRARA GPEGTNSSARYAATM*KW/TAS ALQPLSRKSLKDSSEGKSSQWA ELRAVHLAVHVAWKEKWPDPV RLDTSWAVANGLARWSGTW KEHDRKIGDKEVWGRGTRIELS EWSKTVTIFVSH/VLLPRLPSIRG LTECLIHQHGIPHSIASDQGTHF TAKELQQWAHAHGIHWSYHVP HHPG\WGKVLQKAVYALNQR IYEWKEESCLHTGVADALRGN WAEGRHREKALWLGLWSTWS QHPLRSLKTRHHPGLGVLS ICEAGGATEELSRASGFATGYG KRKEDTKKKHQHSVSDIEQQH SLGLTEKTVKGTPTQGISM RPG LYHKATEFQE
6679	37047	A	6729	1	2229	
6680	37048	A	6730	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLPDGPKHHC PPVKVGAYGGQVINGVLA\HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLL EQINT SPGTWYAAIDLAN AFFSIPVHK AQQKQFAFS WQQGQYTFTVLP QWYIN SPALCHNLIRRLDLCFS LPLDITLVHYIDIMLIGS SEGE VANTLDFVRHLRARG WEINPT KIQGPSTSVKFLG FQWCGACQA IPSKMRD KLLHLVPPTTKKEAQ

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6681	37049	A	6731	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLDCFSLPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWYVH DWARAGPEGT
6682	37050	A	6732	3	266	
6683	37051	A	6733	3	582	
6684	37052	A	6734	3	403	
6685	37053	A	6735	1	2712	
6686	37054	A	6736	875	1506	LSIYLVTDQKAA/SSEWGPEQEK ALQEVQAAVQAALILEPYDPA GPVVLEVSLADRDVWSLWQ APIGESQQRPLGFWSKALPSSA/ DHKACHAQQHSIIKWYIHD RARAGPEGTNSSARYAATM*K WTASALQPLSRKSLKDSSEGK SSQWAE LRAVHLAVHVAWKE KWPDVRLDTSWAV/ANGLAR WSGTWKEHDRKIGDKEVWGR GTRI
6687	37055	A	6737	1	633	MTVDYRKFNQVVTPTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFALPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
6688	37056	A	6738	2	1103	DLWPFTRVTLHRGKRNDQTFQ GLLDTGSELMLIPEDTKHHCGP PVKVEAYGGQVINGVLAQIQLT VGPVGSNGTHPVVIYPVECIIGI GILSSWQNPHIGSLTSRKTGDS WRMTVHYHKLNQMVTPIAAAI PDVVSLLLEQVNTSPGSWYAAID LANAFFIPVHKAHQKQFAFSW QQQYTFTVLPQWYINSPALCH NLIRRDLDCFSLPLDITLVHYID DIMLIGSSEQEVANTLDFVRH LRARGWEINPTKIQQPSTSVKFL GFQWCGACQAIPSKMRDKLLH LVPPTTKKEAQCL\QLLACY/W ALVETEHLTISHQVTMRPELPI MNWVLFDPSSHKVGCAQQHSII KWYVVDWARAGPEGT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6689	37057	A	6739	1	2058	
6690	37058	A	6740	2	1173	WEVRQYTFTVVPQGHINSLVLC HDVVRRDLGHFFLPQDITLVHY IDDIMLIGSTPPITKKKAQHLVG LFGFWRQLVPHLGVLWPYIQ VTQQAASFEWGPEKEKALQQV QAAVQAALPLGPYDPADPMVL EVSVADRDAVWSLWQDPIGES QWRSLGFWSKALPSSADNYSF ERQLLACYWVLVETERLQWV TPAEEDFNNQVDRMTHSVDTT QPLSPATHVITQWAHEQSGHG GRDGGYTRVQQHGLPLTKADL ATAGKVFQKAV*ALN*HSIYGT LSLIARIHRSRNQGEVEVAPLT ISPSDPPAKFLLPVPPTLRSAGLE FLVPEEGMLPSGDTTVPLNWKL RLPPGHFGLLPLHQQANKGVT VLVGVTDLDYQDEISLLPHNG
6691	37059	A	6741	823	2487	KELKLWKNRHKLLSYPTVGAA VTQLQNLTAMGVIGSHGARGQ VVALNRQRQGDLPFTRVTVH WGKG/NMQIFGGLDGTSELTL IPGDPKHHCGPPVKVGAFGGQ VINGALARVQLIVGPVGPWAHP VVISPVPECIHDIDILSSWQNP SLTGRVRAIMVGKAKWKSLEL PLPRKIVNQKYHIPGGIVEISA TIKDLKDAGEVIPTTFPLNSPI WPVRKTDGCWRMTVDYCELN QVVTPTAATVPDVVSLLEQINT SPGTWYADIDLANAVFSIPVHK AHQKQFAFSWQQQYTFTVLP QEYINSLGLCHNLIQRDLDFSL LQDITLVHYIEDIMLIGSTEQEI NTDLLFMAKEVWQWAHAHG IHWSYHVSHHPEAAGLIEWWK GLLKLQLQCQLGDNLTLEGWGK VLQKTVYALNQHPYIGTVSPIA RIHRSRNKGVEVAPFTITPSDPL PQFLLPVPATLCSAGLEVLAP GGTLPPGDRTTIPLNWKLRPP EDFGLLPSLSQQAAGKGVTVLAG VIHPDYQDEISLLHNGCKEDL
6692	37060	A	6742	3	350	
6693	37061	A	6743	1	3339	
6694	37062	A	6744	1	2271	

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6695	37063	A	6745	3	1377	AHLAADDFFCTK*GWVSG/LPQG LDKLTLPGANLEMQPENLKED LVYLKKNHEELSMAIKRNESM AKGLQRALLQQQPEDDSKCFP RPQDLIRLYDIILQLTLEDREGK GLSFSFACVDKDVSVKMDTVP GVNLSCILNEMRDQDKKLVEK SCKDAQGWFFSLKALLEGSLVE TEVCYRTQLAQLQGLIRSMEQQ LCELCCDAEHQDHEHQVLLDV KTQLEQEIATYSRLLEVEDAQL ATQYSLSLASQPTREDLEKAIL KFIWNQNRAQIAKTILSKSKSA RGIMLPSPFKIYYKTTVTKTAWC WYKNRHIDQWNRIENPEIRPHT YNHVIFDKPDKRKQWGKDSLF NKWCWENWLAICSKLTLDPFL NPYTKVNSRWIKDLNLQPKTIK ILKENLGNAIQDTGKGKDFMTK MPKAIATKAKIDKWDLIKLSF CTALRNYQQSKPTTYRMGENF
6696	37064	A	6746	1	882	
6697	37065	A	6747	13	1402	STGSTHACDLLFSPSPVCLPPAA ATMTTSIR\QFTSSSSIKGSSGL GGG\SSRTSCRLSGGLG\AGSCR LGSAGGLGSTLGG\SSYSSCYSF GSGGGYGSSFGVDGLLA\GGE KA\TMQNL\ND\RLGSYLDKVP PWKEANTELEVK\RD\LVTRGR APGPARDYSQYYRTIEELQNKI LTATVDNANILLQIDNARLAAD DFRTKFETEALRLSVEADING LRRVDELTLARADLEMQIENL KEELAYLKKNHEEEMNALRGQ VGGEINVEMDAAPGVDLSRILN EMRDQYEKMAEKNRKDAEDW FFSKTEELNREVATNSELVQSG KSEISELRRMQALEIELQSLS MKASLEGNLAETENRYCVQLS QIQGLIGSVEEQLAQLRCEMEQ QNQEYKILLDVKTRLEQEIATY RRLLEGEDAHLTQYKKEPVTTT QVRTIVEEVQDGKVISSREQVH
6698	37066	A	6748	2	452	FLLPSSFCTHSLLSPTITIVPGP DFNLASHIIPDTTPDPHDCISMIH LTFTPFPHISFFPVPHPDHA*FID GSSTRPNRHTPAKAGYAIAQAT IPPLRTSHFLSIVEIYPQGNFVS FHVLFYYSSGHIQAPSLPYTLRR DRRPGTSRA
6699	37067	A	6749	1	1791	

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6700	37068	A	6750	1	219	
6701	37069	A	6751	2	528	TLTVESKSIKAYKLSLQFPHTC PKTGHALQVSSGFVESPTVTIVP GLDINLASHTIPDNTPEPHDCIS LIHLTFTFPFHVVSFFPVPHPDHT WFIDGSSTRPNCHSPAKTGyai VSSTLIIDATALPPSTTSQQAELI ALTRALTLAKGLPINIHTDSKY AFHILHHHAVI*AER
6702	37070	B	6752	1	1744	
6703	37071	A	6753	1	1376	MCKRMPGLQASQTVCPFYDKN YLDLKRKGTEIKRRERLKCGTK IERRKRLRDSERLEKRIKRGCLP DLKLSTEIQINRLRGLYTLLRKE RRFGLQETINYAEVTGIYVKELI EDREHLNSGKYIFNIFDIKVP VFGIIPYMLWEKKEGTKEGIK EGMKRESQKRIKWERSFITFIAL NTADRTLMSSAGCYRKQVKIHI DALPPNSQTLKKRGGASLIISF RRQSGPSAAGLWEFARGPFQTL FAWLSPAEEAEQQRLLPASSAE SFIAEGDPPDAGQSSPPSSLHAA AATMLMLEALKITNYAQLTLY SSPNFQNLFSSSHILHLSADWL LQLYSLFVESPTITIVPGPDFNPA FHFIPDTTPDPHDCISLIHLTFTF FPHISFFPVPHPDHTWFIDGSST RPNRHTPAKAGYA/DGRNTSYC VLSVGN SPLVPNPGSARCTEG GLLYARA
6704	37072	B	6754	400	820	
6705	37073	B	6755	1	1190	
6706	37074	A	6756	1	1002	
6707	37075	B	6757	1	3216	
6708	37076	A	6758	1	4020	
6709	37077	A	6759	1	1155	
6710	37078	A	6760	2	346	SSYLMHILSAPNLLQLYSLFVES PTITIVPGPDFNLASHIILDTPD PHDYLSDPDIHS/TFP/DISFFPV PHPGHTWFNDGSSTRPNRHSPA KAGHAIVFSTSIIEATALPPSTT
6711	37079	A	6761	189	1201	
6712	37080	A	6762	1	231	
6713	37081	A	6763	1	834	
6714	37082	A	6764	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVRVTMT
6715	37083	A	6765	21	706	
6716	37084	A	6766	1	158	

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6717	37085	C	6767	78	401	
6718	37086	A	6768	536	694	
6719	37087	C	6769	1	1410	
6720	37088	B	6770	1	1836	
6721	37089	A	6771	306	487	VGFLGILF/CFEAIVNVSSLMIW LSVCLLSVYKNACDFCTLILYP ETLLKLLISSSSLYLW
6722	37090	A	6772	714	1096	FFLPMSMECSSICLYPL/CISLRS GL*FSLKRSFTSLVSWIPRYFILC KSQGMRWLGLGSEA*YSCLLIL IRKITQNSVEVLGRRKFLGGGM EREVVMFLRAASSGIRGSVGT NFKSESRLHQISCASV
6723	37091	C	6773	1	2796	
6724	37092	A	6774	126	490	FFLPMSMECSSICLYPLLFPNAV VCSSP*RGPSHPL*VGFLGILF/C FEAIGNGSSSLMIWLSVCLLLVY KNACDFCTLILYPETLLKLLISL RRFWAETMGFSRYIIMSSANRD NLTSSFPN
6725	37093	A	6775	1	550	
6726	37094	A	6776	578	865	MCPRDYGMLCLCSH\CFKEHLY FCLHFVMYPVVIQEQVVQFPCS *AVLSEFLNPEF*FDCTVV*ETV CYNF*SFTFAEKSFTSNSVVFNG IGVVWC
6727	37095	A	6777	1	2091	
6728	37096	C	6778	1	1458	
6729	37097	B	6779	1	504	
6730	37098	A	6780	70	511	NHASPGIRNLFHPRGLRAITIA VFCKQNTYIRLEPFKINVLEQIT KHIEKLQCGGVVKQLSRRGNN QHISSTYDINRADTQVRRVNN YDIIA*ATVSMASRSIRCGSVGS LPSSNLPINSVSIRCRARQEGIM SSPGQQVGFIA
6731	37099	A	6781	3	306	
6732	37100	A	6782	1	3567	MHIVVETALSASWQNKAKPPA RVLLQVVPNVWFLVAVVWEL YPSLDLMDRSIECSSSPATEQS WTENDYDKLREEGFRRSNYSE LQEDIQTKGKDVENFEKNLEEC ITRITNTQKCLKELMELKTKAR ELREECRSLRSRCDQLEERVSV MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLKNTLQDIIQENF PNLARQAKVQIQEIQRMPQRY LTRATPRHIIVRFTKVE
6733	37101	A	6783	386	550	
6734	37102	A	6784	1	594	

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6735	37103	A	6785	1	1324	MGKKQSRKTGNSKRQASPPP KERSSSPAMEQSWMENDFDEL REEGFRRTNYSELQEGIQTKGK EVKNFEKNLDECITRITNTEKCL KELMELKAKARELREECRLRS RCDQLEERHHTTPIPKLTTYLE VKLSPANVKEQVITNCLSDHSA IKLELRIKKPTQNPSTTWKLNN LLLNDYWVNKEMKSEIKMFFE TNENKNTTYQNLWDAFKAVCR GKFIALNAHKGKQERSKIDTLT SQLRELEKQEQTHSKVSRQEI TKIRAEPKEIETQKTLQKINESR SWFFERINKIDRRLARLIKKRE KNQRDAIKNDEGDITDPTEIQT TIREYYKHL YANKLENLKEMD KFLNTYTL PRLNQEEAESLNRPI AGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEKLVFGAGYFGM WALAALPSNLLKLSQLCQAAA EVNVLVQFVCIC*SCLNSVRRQ
6736	37104	C	6786	1	1719	
6737	37105	B	6787	1	1098	
6738	37106	C	6788	1	1782	
6739	37107	A	6789	3095	3217	CRCLQMAM*WS*AIALSMKIS MSPRKPEV*IKVLAGLCCL
6740	37108	A	6790	1	5364	
6741	37109	C	6791	1	2505	
6742	37110	A	6792	37	1214	KLLQDL PFSINSSAVEKISMSTT GQVIRCKAAILWKPGAPFSIEEV EVAPPKAKEVRIKVVATGLCGT EMKVLGSKHLDLLYPTILGHEG AGIVESIGEGVSTVKPGDKVITL FLPQCGECTSCLNSEGNFCIQFK QSKTQLMSDGTSRFTCKGKSIY HFGNTSTFCEYTVIKEISVAKID AVAPLEKVCLISCGFSTGFGAAI NTAKVTPGSTCAVFGLG/VGVL SVVMGCKAAGAARD/IIGVDVQ QGRKF*GRAQELGATECALNP/Q ALKKPHFKEVLFDMTDAGIDFC FEAIGNLDVLAALASCNESYG VCVVVGVLPA SVQLKISGQLFF SGRSLKGSVFGGWKSRQHIPKL VADYMAEKLNL DPLITHTLNL DKINEA VELMKTGKW
6743	37111	B	6793	1	2280	
6744	37112	A	6794	1498	1764	LVYLKVMGRMEPSWKTLCRIL SRRTSANLSKAGQCSDSGNTEN TTKILLKKSNSKTHNCQIHQS*N EGKNVKGSQRERSGYPQRGRPS

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6745	37113	A	6795	3	640	
6746	37114	A	6796	1	996	
6747	37115	A	6797	1	933	
6748	37116	A	6798	74	1128	LLLDL*VD*SPSRPLEMRFRV*P MKRCTTLKKNYLSFLVYISRNL *NRVKAIM/VGKA EWKTIELPL PRKTVNQKQYRIPGGIAEISTTI KELNNAGMVIPTTSPFNSPIWP VQKIDGSRMTVDYCKLNQV VTPIAATVPYVVSSLEQIN/TSPG T/WNRKRFCNRSRLHLKLLCHL GHMTQQI*CFLRCQWHIGMLF GPEICGCTSLSGQKL/WKIFVSH AASFEWSPEQEALQVQAVV QAALPLGPYDPADPVLLEMSV ADRDVWILWQAPISESWRPP GFWSKALPSSADNYSPIFERQLL ACYWTLVETERLTMGHQVTIPP ELPIMNWVFSDLSSPKMCHPQQ
6749	37117	A	6799	1	229	
6750	37118	A	6800	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGS RYAGTTQKWTAVALQPLSRTS LKDSSEGKSSQWAEALQAVYLV VHFAWKEKWPVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAEFEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHCY IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
6751	37119	A	6801	2	739	HKMGHAQQHSIIKWK*YICDW ARAGPKGTTAPMASWGVLYD QLTEEEKTRAFTDGSARYAG TTQKWTAAALQPLSRTSLKGS GEGKSSQWAEALQAVHLVVHFS WKDKWPDVRLYIDSWAVANG LAGWSGTWKKHDWKIGDKEI WGRGMWMDLSEWPKPVKIFG SHVSAHQWVISAEDFNNQVD KMTCSVDITQPLSPATPVITQW AHKQSGHGGRDGGYTWAQQH GLPLTKTGLAMATAECP
6752	37120	A	6802	1	354	
6753	37121	A	6803	3	592	

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6754	37122	A	6804	126	365	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAAALPLGP YDPADPMVLVVSADKDAVWI FHLGSDRWRRTRYRCL
6755	37123	A	6805	1	636	MEFNDSMHNTFDHIWRTKEYD EAGWLLLSSLDKAMKENDEL DSNSQIQKQILSLQSSKIILNLTE GTVVTQLQNLNSVGIGSQGGR GQVAALSLQRQGASFEWSPEQ EKALQQVQTAVQAALPLGPYD PSDPMVFEVSVADGNAVWSLW QAPIGELQWRILEFWSKALPSS ADNYSFGRQLLACYWALVET EHLTVDHQVT/M*PELPIM
6756	37124	A	6806	1	672	
6757	37125	A	6807	308	470	
6758	37126	A	6808	1	1908	
6759	37127	A	6809	1	1218	MGIIGSRGGRGQVAALKRQRQ VTKKAASFEWGPEEEKALQQV QAAVQAALPLGPYDPADPIVLE VSVADRGAVWSLWQVPIGESQ QRPLGFWSKALPSSADNDSPFE RQLLACYCAI.VETERLDMGHQ VTMRPEVLIINCVLSDPSSH/QG WRLCMDSATWTSTYQ/A*PGY GHC*VPNLPAETNTDPSIWHH S/YG*LASYLVIG*LHWTSSIME GAEVCPHWNRHLLRI*VCLSCT QCFCE/SHPWIHE/ASYLPSWH ST*HCL*SRHSPYS*RSVAVGSC SWNSLVLPSPSS*SSWINRMV EWPFEVTITMPTR*QYSAGLGK SSSEGCVCSESASNIWYCFRSQ DSWVQESRGGSGGTIHHHF** PTSKIFASCFLDIMFCWT*GCS/S *WRNAATRRHNNNFI
6760	37128	A	6810	901	1142	GPEDLQGLFILSFQDPLL/SHPV CLEALAPFPSPVPPISSFPPHVA GEFWLYPSGAA/RASSDAQSWT VIAVSPLRGLNSWG
6761	37129	B	6811	1	1452	
6762	37130	A	6812	122	1838	
6763	37131	A	6813	101	249	MTHVTALRTSSNLMRN*RKVG EAKSQQEH*S*QACHLKSRMSS SRLWIN
6764	37132	A	6814	1	1074	
6765	37133	A	6815	310	397	LTIWQDSNPGSCL*GCSVCAHA /CVGGQHMCV*PSYSLYLKSE PKEGTGRNKDPLNSQNRKGF LEQIHQ
6766	37134	A	6816	1	583	

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6767	37135	A	6817	1	486	
6768	37136	A	6818	2	1001	
6769	37137	A	6819	1	2307	
6770	37138	A	6820	3	393	
6771	37139	A	6821	1	1776	
6772	37140	A	6822	1	1140	
6773	37141	A	6823	1	558	
6774	37142	A	6824	2	798	PRVRIFFSITWYSLRVLTETSLW GGLILVVIITIQYDMTRTRNKYL HTNSLVALANMSAQFR\SLHQY AA\QRIIRLFSLLSKKHNVLEQ ATQSLRGSLSNDVPLPDYAQD LNVIEEVIRMMML\EHINSCL\TNS LHHNPNLGITPWLLQ\RRLSWN NFR\THPSFQGINGKILIWVIF/LS /SRLQGLAGKLGAELSERVLEI IKQGVRL\SLPKDRLKKFPELKFK YVEEEQPEEFFIPYVWSLVYNF SSRPVLGIPQDIPAVSPWVSD
6775	37143	A	6825	3	206	PSASRPWAHPALHPSVPARG WQPPTGLHPLREQRGLGQHM* QSSGQQPQGGVGPESHFGAL WAQL
6776	37144	A	6826	200	601	EMGSCDQWQRPCVPWEAVVM PRDP/LKMALAVVWPKMKAPR VTKRTP*LTSTHQLAGLTSSISE SLA*MRHSPGKTKMKQAARPP MTEITLPMMSGMKS/VQQQGEQE PDQRLQHSPPPLPPHVLLHWHP LVAQPQA
6777	37145	B	6827	25	1407	
6778	37146	A	6828	1786	1795	HC*LNALPSGETWGQKRGPLPG TQLPLPL/VPLRAPKGRSPKGSK GPTHHTWALSSFSLTSPQVTVG TEDQATSASGRPWLRTGTGPGG GRVWAGRDS\RGVPALTVLHV LSSLGRETP*RPCLRGPTAPAGP KRAPGKWLPWSQAPPCGCCPR *LSHVL*DRNRCAW*KGGGRG L/LRAPTPVPELAPHPCGPAPTL SKPLSSPNMPAQGLTQE*PGSV ANLPPYGPALLCLGRREWDER GQVG*VPTSEME*RRTEPLKT PGDCSAAASKIPSFFSNRTPFPPL CPHKNKLKGT
6779	37147	A	6829	1	311	
6780	37148	A	6830	1	402	
6781	37149	A	6831	1	750	
6782	37150	C	6832	130	450	

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6783	37151	A	6833	1	875	MRLRLKCLKVEQHVLYQKYS NNSWRYLSNRLLAPSDSPEWLS FDVTGVVRQW/VWSRGGEIEGF RLSA\HCSCDSRDNTLQVDINGF TTGRRGDLATIHGMNRPFLFM ATPLERAQHLQSSRHRRALDTK YCFS\STEKNCCVRQLYIDFRKD LGWK\WIHE\PKGYHANFCLGP CPYIWSLDTQYSKVLALYNQH NPGASAPCCVPQALEPLPIVY YVGRKPKVEQLSNMIVRSCKC NLGPAPPRPAPAGPAPRPAPV ALPMGAVFKDTRAPSPPGAPLK MERGKKKKKK
6784	37152	B	6834	162	635	
6785	37153	A	6835	2	1846	
6786	37154	A	6836	322	2104	
6787	37155	A	6837	1	352	
6788	37156	B	6838	92	1774	
6789	37157	A	6839	260	1016	
6790	37158	A	6840	479	1937	DVEHVGKMRRRWRRRVVAD GNVVKPMSCAGDLQ/PFTRVTV HWGKGNDQTFQDLLDTGSELT LIPGDPKRHC GPPVKIGAYGGQI INGVLAQVQLTVDAVGWTHP VVIFPVPECIIGIDMLSSRQNPHT GSLTGRVWTIMVRKAKWKPLE LPLPRKIVNQKQYHIPEGIVEIS ATIKDLKDAGVVIPTTSPFNSPI WPVQKTDGSRMTVG YCKLN QVVTPIAAAVPDVVSLEQINT PPGTWYAAIDLANDF
6791	37159	B	6841	20	26	
6792	37160	B	6842	2	207	
6793	37161	B	6843	187	405	
6794	37162	A	6844	451	770	LFLFLLSSHPRRSSASWYRHRH PHHPAARLPVADSASSSSSPSS SSPSPSSSSSSSPSSSFVYPHC QPPAPHFPH*HSR*QGRLFHFLP LPQLPSSPLSPWW
6795	37163	A	6845	1	417	
6796	37164	A	6846	191	314	
6797	37165	A	6847	129	212	

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6798	37166	A	6848	1	192	CALNAGL/IGENEAKRRRSKVT QEADFPGSMDGASNFRGDAI AGILIMVINIVGGLLVGVQLHG MSMGHAAESYALLTIGDGLVA QIPALVISTAAGVIVTRVSTDQD VGEQMVNQLFSNPSVMLLSAA VLGLLGLVPGMPSLVFLFTAG LLGLAWWIRGREQKAPAEPKP VKMAENNTVVEATWNDVQLE DSLGMATGLLT*PIFRAQWTGQ VTLFAAMPSPGSSWSLTLASG CWSACCNMA
6799	37167	B	6849	65	1129	
6800	37168	B	6850	46	1038	
6801	37169	A	6851	2	413	PSFQGPVSLPSITVVSIDSQASKP LKTPQLWCQLRQYSFKHSFLV VPTCPVPLLG*DTLTKLSASLTI PGLQPHLIATHLNPQVEDTSIPS LATYHAPLTISLKPNNHPYPSQC QYPIPQHALKGLKPVITHLLQH
6802	37170	C	6852	35	346	
6803	37171	C	6853	239	484	
6804	37172	A	6854	1	1020	
6805	37173	A	6855	3	131	
6806	37174	A	6856	1	956	MAGALPPASLPPCSLISDCCASN ERSSMGIGPSEPCAGYNLLVCR LTKKKRIRSTNKVWDYVKRPN LRIGVPEEEENS KSCENILGEIIE ENFPSLATDLDIQIEAQRTPQK FITERSLPRYIVIRLSKVKTKERI LRAVRQKHQIFLTQRLKTNTAQ SPQKLPGPSQTLLVTLTREITIVP GLDFNPASHIADTTPDPHDCIS LIHLTFIQPHISFFPVPHPDHTW FINGSSTRPNRHSPAKAGYAIVS STSIEATTLPSTTSQQAEFIAL TQALILAKGLCINIYADSKY/AF HILHHHAVIWAERDTFTG
6807	37175	A	6857	1	1269	
6808	37176	A	6858	1	741	
6809	37177	B	6859	411	1257	

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6810	37178	A	6860	438	3997	SPLPHSTPISHPAACFKKIKACY HLPATAWPFKAYKLSLQFPHFT CPKTRQGLQHNSHKNTALPD YRLRLISQTPISTKQQLSFLG MVSKVRILTQELGPRPIAFLSKQ LDLTVLTQPSC LHAAAAAALIL LKALKITKYAQLTLYSSHNFQN LFSSSYLMHILSAPWLLQLYSLF VESPTITIVPGTDFNPASHIILDT TPDPHDCISLIHLTFTFPFRISFFP VPHPNHIWFDGSSSTRPKCHSPA KAGY
6811	37179	A	6861	245	505	
6812	37180	A	6862	346	522	PAPEFWVHG*NVSPSL*SKEQ EDRGFISQGRSPDL SHGTFKHV RPCEETTKQALCEQH
6813	37181	A	6863	3	879	SGDLPWEINPPSSYTLLCEKDP TTSGPQTNQPKKH/LTNFKSETK ETRFIRGPTTPAPVTDWEGSLPL VFNHSRDTSLIHPGFRGVRPRR DACLGPSPLAASPTFLGKGPA PRQTELGPNSSASAPPPYNPFI ASPPHTWSGLQFSPMTSPPPPA QQFTLKKVAGAKGIVKDLINLT FKVYNRKKLQFLASTVRQTP ATSPA HKNFQTPELQQPGVPPE PPRGACYKFQKSGHRAKECLQ PRIPKPHPICVGPHWKSDCPTH LAATPRAPGT LAQGS LTPSQIFL
6814	37182	A	6864	143	331	DTSTPSLVTDHASLTISLKP NHF YPD*CQYPIQHALKGLKPVITC LLQHGLLKPINSPYPR A
6815	37183	A	6865	1	783	
6816	37184	A	6866	32	415	WRHALKGLKPVITRLLQHGLL RPINSPYN SPFLLVLEPDKPYRK RK*ISPPNRHILASVEVLKNQVN SHEFERSALIHTLTSG LAPCSLH KMCSKLPRSFLSVSGTGKEAR SKILTFRTASRHLVL

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6817	37185	A	6867	1	1374	MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKPTETKTAW YWYLNRDIDQWNRTEPSEITPH TYNYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLDPF FTPYTKINSRWIKDLNVRPETIK TLEENLGITIQDIGVGKDFMSKT PKAMATKDKTGKWDLIKLSF CTAKETTIRVNRQVAALLNSA VFQNAVEVVVWPSSEVHVKFL FCKIISCAGQKQPIKFDGSSSL GVATAMMSATIAHLKRIKACY RSPVTAWTFKAYKLSLQFPHT CPKTGQALQ*HT*KGLKPVIAH LLQHGLLKPINSPYNSLILPVQK PDKPYRKLESFTSKAIKWHQIPS VPGKHLC**GS*RSPVTAWTFKA YKLSLQFPHTCPKTGQALQEA GVIHFKGHQMASDPITQGNTYA NKVAKEAASVLTSVPHGQFFSF SSVTPTYFPTIDFTYMPQVRKL KHLMV
6818	37186	A	6868	122	281	
6819	37187	A	6869	2	2144	
6820	37188	A	6870	224	418	LSQWRHALKGLKSVITRLL*HG LLKPINSYNSPIVPVLKPKDKTY RKVESFTAKTIKRCQIPLL
6821	37189	A	6871	5	289	
6822	37190	A	6872	1	2205	
6823	37191	C	6873	1	2082	
6824	37192	B	6874	1	1614	
6825	37193	A	6875	1	2067	
6826	37194	A	6876	1	1152	
6827	37195	A	6877	1	798	
6828	37196	C	6878	488	788	
6829	37197	A	6879	90	765	NTVFGLVVLPLELKLRIFRLLD VRSVLSLSAVCRDLFTASNDPL LWRFLYLDRDFRGDFRNDIYSWT TKDFEYYINLVDKTEARFEKVD SDFESFTVGKMPSNSIACTEKSF MKGRVSQCDKKPVITRLLQHG LLKPINSYNSPILPVLPKPKPY KLVQDLHRINQIVLPIHPCGAQP HTLFCPQYLPPQLTIPVPDLKDA FFTIPLQPSSQPLFAFT*TDPDT

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6830	37198	A	6880	1824	2286	PRVLRPNsprnispisnrifsd*R CPIASEASWTITDALG/RLLQWR HGLLNpINSPYNPILPVQKPKD PYRLVQALLSLPQLPLFLAWTSI WPPTLFRITLLNPMTVSL*ST*H SLHFPMFPSFLFLITLGLLMA VPLGLIATHQRRAML
6831	37199	A	6881	930	1289	LSQWTDGLLKPMNSPYNSPILP VLKPKPYK*VQDLRLINQIVL PIHPVV\PNPYTLSSIPPSTTHY SVLDLKLAFFTIPLHPSSQPFFAF TWTDPDTHQAQQIT*AVLPQSF SDSPHE
6832	37200	A	6882	2	196	IHGCKFIQCKRILSNFTEVADHV HDQIRL*TGIRLLTQPQPRLSR HQVAQHSVCRYLCQLPLL
6833	37201	A	6883	2	1441	LNQEEGESLNRPIGTSEIAINS LPTKKSPGPDGITAIFYQRYKE ELVPFLVKLFQSTEKEGILPNSF YEASILIPKGRDTTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHNGQHINRTNDKSHIISIDA EKTFGKIQQPFMLKTLNKLID GTYLKIRAIYDKPTANIILTGQ KLEAFPMKTGTREGCPLSPLLF NIVLEVLARAIQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLRLISTFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKALLNEIKEDINKWKNIPC SWVGRINIVKMAILPKVIYRFN APIKLPMTFFTELEKTTLKFIW NQKSARIAKSILSQKNKAGGIM LPDFKLYYKATVTKTAWYWY QNRDIDQWNTTEPSEIMLHIYN Y/LIFNKPEKNKKWGKDSL FNK WCWENWL

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6834	37202	A	6884	69	2415	DKTSRGTIRQQRLRFTNIRCSAA TAADIQANRVWRGPPANSNRP AA\RVLTVRRKTNKQKGHPHQ KPICTSPSSNTKEIQTITREYYKH LYANKLENAEERDKFLNIYTLF RLNQKEVESLNRPTGSEIEAIHK SLPTKKSPGPDGFTAKFYQRYK EELVPFLLKLFQSIEKEGILPNSF YEASIIIPKPRDRTTKENFRPI SLMNIDARILNKILANLIQQHIK KLIHHDQVGFIPGMQGWFNICK SINIIQHMRNTKDKNHMIIISDA EKPFDKIQPFMLKTLNKLDDID GTYLKIVRAKYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLAREIRQEKEIKGIQL GKEEVKLSLFDVDDMIYLENPIV SAQNLLKLISNFSKVSQYKISVQ KSQAFLYTNNRQTESQTMSELP FTIASKRIKYLGIQLTRDVKDRF KENYKSLSEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NAIPIKLPMFTFFTELEKTTLKFIR NQKRARIAKSILSQKNKAGGIT LLDFKLYYKATVTKTAWYWY QNRHVDQWNRTEPSEIMLHIY NYLIFEKPDINKQWGKDSL FNK WCWENWLAICRKLKLDPLTS YTKINSRWIKDLNVRPKTIKTLE ENLGNTIQDIGMGKDFMSKTPK AMATKAKLKDWDLIKLSFCT AKETTIRVNRQPTGWEKIFATY
6835	37203	A	6885	1	2358	
6836	37204	B	6886	1	1443	

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6837	37205	A	6887	452	2913	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDYRTLHPKSTEYTFFSAPHCI/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQNR ATWKLN/MLLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEQT SKVSRPISSEIEAIINSLPTKKS PGPDGFTAIFYQRYKEELVPFL LKLFSIEKEGILPNSFYEASILI PKPGRDTTEKENFRPISLMNIDA KILNKILANRIQQHIKKLLHHDQ VGFIPGMQGWFNICKSINVQHI NRTSDKNHTIISIDA EKAFNKIQ QLFMLKTLNKLGTNGMYLKIV RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPLSPLLFNIVLEVLA RAIRQEKEIQIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINLQKSQAFLYT NNRQTESQIMSELPFTTASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWRNIPCSWVGRIN IVKMAILPKVTYRFNAIPIKLP TFFTELEKTILKFRWNQKRAHI AKTILSQKNKAGGIRLPDFKLF YKATVTKTARYWYENRDIDQ WNRTEPLEIMPHIYNHLIFDKPD KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLTSYTKINSRWI
6838	37206	A	6888	1	1677	

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6839	37207	A	6889	2	2400	SMRQKENKDIQDLNSALHQAD LIDIYRTLHPKSTEYTFFSAPHCI /RTYSKIDHTLGSKALLSKCKIT EIITDSQTTVLSELRIKKLTQ\NR SATWKLN/MLNDYWVHNEM KAEIKMFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLMSQLKELEKQEQT HSKVSRRPISSEIEAIINSLPTK KSPGPDGFTAEFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEASII LIPKPGRDTTEKENFRPISLMNI DAKILNKILANRIQQHIKLLHHI DQVGFIPGMQGWFNICKSINVI QHINRTSDKNHTIISIDAEKAFN KIQQLFMLKTLNKLGTNGMYL KIVRAIYDKPTANIILNGQKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIHQEKEIQGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSQYKINLQKSQA FLYTNNRQTESQIMSELPFTTAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWRNIPCSWV GRINIVKMAILPKVTYRFNAIPI KLPMTEFFTELEKTILKFRWNQK RAHIAKTILSQKNKAGGIRLPDF KLFYKATVTKTARYWYENRDI DQWNRTEPLEIMPHIYNHLIFD KPDKNKQWGKDSL FNKWCWE NWLAI CRKLKLDPFLTSYTKIN SRWIEDLNVRPKTIENTLEENLG
6840	37208	A	6890	1	1515	
6841	37209	A	6891	1	1428	

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6842	37210	A	6892	150	1920	NYQCREVLKGPDGAENHGTRT T*RMHK\LSSQFSQLEERVSGM EDQTNETKTDTHRLKIKGWRKIY QANGKQKKAEEAILVLDKTDF KPTKIKGDKQGHYIMVKGSIQQ GQLTILNIYAPNTGASRLIKQVL RDLQRDLDSHTIIMGDFNTRL TLDRSTRQRLNKDIQELNSALH QVDLIDIYRILHTKSTEYTFSSA PHHTYSKIDHTVGSKALLSKGK RTEIITNRLSDHSAIKLELRIKEL TQNRSTTWKLNLLNDYWNL WDTFKAVCRGKFIALNIQKRK QERSKIDTLTSQFKELEKQEQT HSKASRRQEITKIRAEKERETQ KSLQKISESRSWFFKINNIDTP LARLIKKKREKNQIDTIKNDKG DITDPTEIQTIRQYYKHYAN KQENLEEMNKFLDTYTLPRLN WEEAESLNRPTGSEFEAIINSLP IKKSPGPDGFTAKFYQSYKEEL VPFLKLFQSIEKEGILPNSFYE ASILIPKGRDTTKKDNFRPISL MNIDAKILNKILANKIQQHSKK LIHNNQVGFIPGMQGWNTCKS INIIQHINRTKDKNHMIIISIDAEK AFDKIQQPSC
6843	37211	A	6893	1	1797	

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6844	37212	A	6894	2	1880	APNTGAPRFIKQVLSDLQRDLDSHTIIMGDFNTPLSTLDRSMRQKVNKDIQELNSALHQADLIDIYRTLHPKSTEYTFFSATHHTYSKIDHIVGSKALLSKCKRTEIITNCLSDHSAIKLELRIKKLTENRSTTWKLNNLLLNDYWVHNEMKAEIKMVFETNDTLPRLNQEEVESLNRPKTGSEIEAIINSLPTKKSPGPDGFTAEFYQRYKEELVPFLLKLFQSIEKERILPNSFYEASIIIPKGRDTTKK/EENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQLGFIIPGMQGWFNICKSMNVIQHINSPKDKNHMIISVDAEKAFDKIQQPFMLKTLNKLIGIDGTYLKIIIRAIYDKPTASIILNGQKLEAFTLKTGTRQGCPLSPLLFNIVLEVLRARI RQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIISAQNLLKLIGNFSKVSGYTINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDFFKENYKPLLNEIKEDKNKWKNIPCSWVGRINIVKMAIPPKVIYRFNAIPIKLPMTFFGMIFLSQKYGHVTLLFRLLQWLLNVARNNNKVIFYKIYKVGHKLSSAYVLCLTCSHFSVSFL
6845	37213	B	6895	13	1506	
6846	37214	A	6896	1	6635	MTPESRDTTDLSPGGTQEMEGIVIVKVEEEDHDFQKERNKVESSPQVLSRSTTMNERALLSSYLVA YRVAKEKMAHTAAEKIILPACMDMVRTIFDDKSADKLRTIPLSDNTISRRICTIAKHLEAMLITRLQSGIDFAIQLDESTDIASCPTLLVYVRYIPLKLRLGGLLQPEKPIVLKVESRDGTIQYNSQQHINLSAAWLKTAVQGREAPGKQPSKQQHSAKRKTHRTQLKKESGDGPHPKFGGGNLASP
6847	37215	B	6897	1	3045	

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6848	37216	A	6898	1	2764	MARELHDKCTSFSSRFDQLEES LSAMEDQMNEMMREEKFREK RRKRNEQSLQEIWVYKRPNL HLIGVPESDRENGPKLENTLQDI IQENFPNLARQGNIQEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTIREYYK HFIYANELENLEEMDKFFETYTL PRLNQEEVESLNRPTGSAIEAH NSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILPNS FHEASIIIP
6849	37217	B	6899	1	3549	
6850	37218	A	6900	387	541	
6851	37219	A	6901	1	545	
6852	37220	A	6902	71	370	RRCKVRPSARGVLRVAVCVCV CVCVYPCVHVCTCVRMCLCVC VCVCE/CSVEIHCGGQGCARCIC LQPQEGGCTEQAVAHCAAQL WRNRLKLMKQPVARV
6853	37221	A	6904	1	738	
6854	37222	A	6905	1	567	
6855	37223	A	6906	1	1416	
6856	37224	A	6907	3	1267	
6857	37225	A	6908	1	552	NALPGRKSRVFSGCVSADTWK PPSSAKVTETKGASPAFLRAGQ PRLVPGETLEKSLGPGKDPQVE PQHPVHLPGISSEGFPWDGFNE QTPKD\LPNRDGGAWVLGYRA GPACPFLHEEREKSNRSELYL DLHPDHSLTEQDDRTPGRLQA VWPPPKTKDTEEKVGLKYTEA EYQAAILHLKRE
6858	37226	A	6909	1	561	
6859	37227	A	6910	219	1343	RRLCHTQPTLGMRESELVNV CVHSVFSLSVQAMQEKADEAK AETIQALYHQTLEALQTLLKAL FIEDPTPAGLKSILEALGPWMNS GKAHERARAVNTNVSVLNHM LLTLPFFMPLGFPALGLLGRLL LHIGDPDEEIGCEALDGHILYTI LELQKRARDKEETNKKELYES NKHFLGPYNPVSPCQNILRVIEE FGDFLGPQIKDLLAALEGLK GSSEAPGKDSREMMQLASEVM LSSVLEWYRHRALEVIPEIMQGI YMQLSHIQEPRARQVALLPVSL LASSFMTEVVVALLMCPLPLNR QPAACASSCPSTAAWAV*GAST LSCSWPCSFRTSASTCLAAW LLPRTPRRVHSPLSYLCAGW

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6860	37228	A	6911	3	730	
6861	37229	A	6912	2	1218	ERKCMQGGKYAGAMESEPCVCT EADFDYCDYGYERHSNGQCLPA FWFNPSSLSKDCSLGQSYLNST GYRKVVSNNCTDGVREQYTAK PQKCPGKAPRGLRVVTADGKL TA\EQGHNVTLMVQLEEGDVQ RTLQVDFDGDGIAVSYNLSSM EDGIKHVYQNVGIFRVTVQALV RLPPHISQCDEVFRFFEARPEDV NPPKDQALLLGELGPAVELCLK EERFADAIHLAQAGGTDLKQT QERYLAKKTKISSLLACVVQK NWKDVVCTCSLKNWREALAL LLTYSGTEKFPELCDMLGTRME QEGSRALTSEARLCYVCSGSVE RLVECWAKCHQALSPMALQD MHVISTDENQVFVAQVEWNQN DTYNLYISDTRGVYFTLALENV QSSRGPEGNIMIDLYEVTI
6862	37230	A	6913	1	1659	
6863	37231	A	6914	540	824	KPRLNYYVKNAEASGADAINW KKGY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWDYVKDQ IYVRLVYLKVTGRMEPSWKTL CRILSRRTSPI
6864	37232	A	6915	1	939	
6865	37233	A	6916	285	458	QVFSQLEGRIALGKFQRPSSLPT GKWTQRCWWGAQWE*D*LFG LHGWWVRPVIAGFP
6866	37234	A	6917	32	171	
6867	37235	A	6918	294	461	
6868	37236	A	6919	2	255	LIPCPATVNNVSDIMGMYMKE CSASLITREMQIRTTIMRHHLTS IGTEMIRK/SKNNECWSGRECQ TVGAGQCVRAPCASRSRHRH
6869	37237	A	6920	2	393	
6870	37238	B	6921	87	633	
6871	37239	A	6922	78	260	TQYLRWKCRNHRLLRRSCWEL *TRAVPIRPSWLQNRYQGTSRF CVCFEESGTPSTQLEI
6872	37240	A	6923	1	369	FVLHEKCLGPFITWGNTNVM VKKICAPT*TKHVW*LES*M WEEPRWPN\GKAPVYSSQREQR RRRVISAFPSEGVLPTFKNKKF TVKQPQVGRSVGIPEGIVIGD GQLQGCLLPLKTF
6873	37241	A	6924	3	201	LKEMQINTTMRYHSTPSRTS*VI KKTDDNNKFWMRMTEKLETSY CWECETMQPRWKVSLQYLL PLI

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6874	37242	A	6925	1	2064	
6875	37243	A	6926	95	752	
6876	37244	A	6927	2237	5072	RAKSPANIIMTGSNSHITILT VNLNSPIKRHRSLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSHSAIKL ELRIKNLTQSR
6877	37245	A	6928	3	331	
6878	37246	A	6929	364	853	
6879	37247	A	6930	2	531	RPRVRELVGGSALQALKEWNTT GKLRINH*KRCGSTQHHGSKYA TDKEERPD\ACPLQPQPPIQNG PMNGCEKDSSTDSANEKPALI PREKKISILEEPSKALRGVTGPNI EKSADLQRCVSLTRYRVMIK EEVDSSVKKITAFAELHNCIID KEASLMAEMGTVNEQAMRC
6880	37248	A	6931	1	456	ISILEEPSKALRGVTEGNRLQ QKLSLDGNPKPIHGTTERSDDL QWSAEQPCNPSKPKAKTSPVKS NTPAAHLEIKPDELAKKRGPN EKSVDLQRCVSLTRYRVMIK GEVDSSVKNIAACAEPFICIID KEVSLMAEM\DKVKGKRPW
6881	37249	A	6932	333	964	
6882	37250	A	6933	240	691	
6883	37251	A	6934	1	2076	
6884	37252	A	6935	14	485	RRSLESVLSRKLNPFF*KATGTSR SESAVWAIIDAVSSPQKRLDSE FIDPLMNKKARISHLTNRVPPTL NGHLNPTSEKSAAGLPLPPAAA AIPTPPPLPSTYLPISHPPQIADS HSPAAPVQGIQPFLLADQYWLE NRYPSQHLSRVTASRARHQT
6885	37253	A	6936	1	643	
6886	37254	B	6937	1	408	
6887	37255	A	6938	2	197	
6888	37256	A	6939	103	298	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEKI FLGHRVGI
6889	37257	A	6940	117	257	

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6890	37258	A	6941	46	219	LKECNCIVCNSKNKCLKG*KKK EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEGRRGRGRGRRR RRRRRRKKK
6891	37259	A	6942	1	1314	MVSRIWSWISEAQCLCRPSGT YGPGEAALLLWLCIEAAAAAA AARSTTTPIITNHQSNIAEQNP PRHENGDPKTYIIHVLAEQVLE RLPHGVALRHDPLAPVVSRA GVGHQRC AADDALQPLLQGRP EPGLAERHGVQDNILKVSHTH TQKSAEKRAVSDPSSTVHRPQP LPPSTVHQSTIPSNPDSSAYCL PSTRHGFSSYTDSFVPPSGPSNP MNPTIGNGLSPQRVHYQHLPTH AGGKRNAALEYGVPRKYHYM LKITASDYEKTKPFQVGDKVM GSGWRKVGMQT*FL*LKKEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEENSLSLTE
6892	37260	A	6943	1	160	
6893	37261	A	6944	1	306	
6894	37262	A	6945	1	933	MWLARELEESLAVSLQGEPGL LAGAGRLQGSPFSPHMEPGRQS ETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE DQLDTM\FGTHQQTSPTQRSAR RRPCSVQGPRS*SPFSPHMEPGR QSETLSQKKKKKEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EEDQLDTMLWDSSTNLNTAL SKEKTMFSSRAKIVKPNGEKPD EFESGISQALLELEMNLDLKAQ LWELNITAAKEIEVGGGRKAIH FVPVPQLKSFQKTQVQLRRILP KPTQKSCNTNNKQKLPRSCTLTA VHDAILEDLVFPSEIVGKRIHVK LDGSHLIKIHLDQAQNNVEHK VEPFGVYKKLMGKDVNFEP
6895	37263	A	6946	1	1365	
6896	37264	A	6947	416	610	EFKKPVLEGG*RGEGGSPCV WSFFDPVHFNYQAGLFRVALP GEQCRTGRLVARVYTGISGASF
6897	37265	A	6948	1	846	

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6898	37266	A	6949	3	620	HVTLIVVTQSHLVIHNLFEGLMI WFIVPISCVICNDIMAYMFGFFF GRTPLIKLSPKKTWEGFIGGFFA TVGFGLLLSYVMSGYRCFVCP VEYNNDTNSFTVDCEPSDLFRL QEYNIPGVIQSAIGWKTVMY PFQIHSIALSTFASLIGPFGGFF ASGFKRAFKIKDFANTIPGHGGI MDRFDCQYLMATFVNVIACV LRPL
6899	37267	A	6950	50	554	
6900	37268	B	6951	446	625	
6901	37269	A	6952	1	2149	
6902	37270	A	6953	1	1704	
6903	37271	A	6954	1	1853	
6904	37272	A	6955	1	1305	MVKGSIQPEELTILNIYALNTGA PRFIKQVLRDLQRDLDSHTIIMG DFNTPLSTSDRSTRQKVNKDIQ ELNSALHQADIIDIYRTLHPKST EYTFFSAPHHTYSKIDHIVGSKA LLSKCQRIEITNCLSDYSAIKLE LRIQKLTQNCSTIWKLNNLLLN DYWVHKEMKAEIKMFFETNEN KDTTYHHLWDTFKA VCRGKFI ALNAHKRKQERFEMDTLTSQL KELKKQEQTTHSKASRRQEITKI RAERKEIETQKTLQKINESGSW FVEKINKIDRPLARLIKKKREKN QIDAIKNDKGVITTDPTIEIQTIR EYYKHL YANKLENLEEMDKFL DTYNLRLNQGEVESLNRPI TG SEIEAIINSLP/TKKSPGPNGFTA KF*QEELTILNIYALNTGAPRFI KQVLRDLQRDLDSHTIIMGDFN TPLSTSDRSTRQKVNKDIQELN SALHQADIIDIYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCQRIEITNCLSDYSAIKLELRI QKLTQNCSTIWKLNNLLNDY WVHKEMKAEIKMFFETNENKD TTYHHLWDTFKA VCRGKFIAL NAHKRKQERFEMDTLTSQKE LKKQEQTTHSKASRRQEITKIRA ERKEIETQKTLQKINESGSWFV EKINKIDRPLARLIKKKREKNQI DAIKNDKGVITTDPTIEIQTIRE YYKHL YANKLENLEEMDKFLD
6905	37273	A	6956	1	1926	

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6906	37274	A	6957	2	1025	WRRYQANGK*KNK/QKKAGV VILVSDKTDFKPTKIKRDKEGH YIMVKGSIQQEELTVLNIYAPN TGAPRFMKQVLRDLQRDLDPH TTIMGDFNTPLSTLDRSARQKV NKDIQELNSALHQADLNIYRIL HPKSTEYTFISAPHRITYSKIDHI VGRKALLRKYKRTETDCLSD HSAIKLELRIKKLTQNSSTTWK LNNLLNDYWIHNKTKAEIKM CFETSENKDTTYQNLWDTCKA VCREKFIALNAHKRKQERSKID TLTSQLKE/LEKQEQTTHSKASRR NLEEMDKYLDYTLPRLNQEE FESLNRPTGSEIEAIINSLPTKKS SGPDGFTAKFYQ
6907	37275	A	6958	1	1661	
6908	37276	A	6959	2	1632	WRKIYQANGK/HKKAGVAIRV SDKTDFKPTKIKRDKEGHYLM VKGSIQQEELTILNIYATNTGAP GFIKQVLSLQRLDSHTIIMED FNTPLSTLDISMRQKVNKDTQE LNSALHQEDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYWVHKEMKADIKMFFETNES KDTTYQNLWDAFKAEEESLN RPITASEIVAIINSLPSKKSPGPD GFTAKFYQRYKEELVPFLLKLF QSIEKEGILPNSFDEASIIIPKLG RDTTKKENFRPISLMNIDAKILN KILANQIQHIKKLIHHDQVGFI PGMQGWFNIHKSINVQHINRT KDKNHMIIISIDAEKAFDKIQQSF MLKTRNKLIGDGYLKIIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEDVKLSLFADD MIVYLENPIVSAPNPLKLISNFS KVSGYKINVQKSQAFLYTNNR
6909	37277	A	6960	1	2169	

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6910	37278	A	6961	2	1255	EGKFRENRIKRNEQSLQEIWY VKRTNLRLLIGVPESDWENGTKL ENTLQDIIQENFPNLR*AKIQRI RSQDPSTHLTSRDTHRLKIKGW RKIYQANGKQKKA AVTILVSD KTNFKPTKIKRDNEGHYIMVKG SNQQEELTILNIYAPNTGAPRFI KQVLRDLQRDLDSHTIITGDINI PLSTLDRSTKQKVNKDTQELNS ALHQVDLIDIYRTLHPKSIETYF FSAPHHTYSKVDHILGSKALLS KCERIEITNCLSDHSAIKLELRI KNLTQNHSTWKLNNLFLNDY WVHNEMKAEIKMFFETSENKD TTYQNLWDAFKAVCRGKFIAL NAHKRKQERSKIYTLTSQKEL EKQEQTHSKASRRQEIIKIRAE KEIETQKTLQKLNESISHQLEW QSLKSQKTTGAGEDVEK
6911	37279	A	6962	1	1122	
6912	37280	A	6963	551	1536	EILSPGPLPYKSS*KKH*TWKGT TGTS CC/INHAKIVTHRLKIKGW RKIYQANGKQKAGVANLVSD KTDFKPTKIKRDKEGHYIMVKG SIQQEELTTLNIYAPNTGAPRFI KQVLS DLQRDLDSHTLIMGDFN TPLLT LDRSTRQKV NKDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHIYSKTDHILGSKALLS KCKRTEIITNYLS DHSAIKLELRI KNLTKNRSTWKLNNLLNDY WVHNEMKAEMKMFFETNENK DTTYQNLWDTFKAMCRGKFIA VNAHKRKQERSKIDTLTSQKEL LEKQEQTHSKASRRQEITKI
6913	37281	B	6964	28	1209	
6914	37282	A	6965	1	1284	
6915	37283	B	6966	1	1056	
6916	37284	B	6967	124	963	
6917	37285	A	6968	3	1162	
6918	37286	A	6969	1	1364	
6919	37287	A	6970	1	1003	
6920	37288	B	6971	1	1129	

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6921	37289	A	6972	1	1917	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIIPGM QGWFNIRKSINVIQHINRAKDK NHMHSIDAEKAFDKIQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIVKMAILPKMCL*R RWTPLCLLTAAASLNRE*ERLV QPLLWRQMYCGPRHCRQVPQH RRLNWSPSLRLS
6922	37290	A	6973	1	2673	

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6923	37291	A	6974	261	2667	TWCSGRYMGVCR/DWHLLL V/KGLRKLTI VAEGEGGAGMSLG ESGNKIKRDKEGHYIMVNGSIQ QEELTILNIYAPNTGAPRFIKQV LRDLQRDLDSHTIIMRDFNTPLS ALERSTREKVNKDIQELNSALH QADLVDIYRTLHPKSTEYTFFS APHRTYSNIDHIVGSKALLSNC KRTEITKCLSDHSTIKLELRIKK LTQNRSTTWKLNNLLNDYWV HNEMKAEIKMFFETIENKDTTY QNLWDTFKAECRGKFIALNAH KRKQERSKIDTLTSQLKELEKQ EQTHSKASRRQEITKIRAEK ETQKTLOKINESRSWFFERINKI DRPLARLIKKKREKNLIDAIKN DKGDITDPTEIQTIREYYKHL YANKLENLEEMDKFLDTYTL PRLNQEEVESLNR PITGSEIVAIIN SLPTKKSPGPDGFTAEFYQRHT VSILISYCQGGSLMSQVYWNQQ EKPPSSSNAPPGLSVNKAQHRH VCCRGEMLKRVQVHYVRAGES DSASFHCVAQGPRAFGKPLILS KENHLLTVTAIAKLNHKLCEIK SMGVFINTEPLYDSCLEQKHAL FASPPATTHSTTMISKAKVIPML SLTPGSFQTVESLAPSAGKFQG TETSSLKTLINLCCPKLPSPSPA HLGGLPGGSQERPSRQYLYESA RTTVLLGLGCPLKQIQLRSQHS SPLEYLES LPPKKDRKKREKIQIN

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6924	37292	A	6975	1	1687	MLKGSIQQEELTVLNIYAPNTG APRCIKQVLSDVQRDLDSNTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNSLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLELEKQEQTSHSKEIQTIR EYYKHLTYTNKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIITGS EIVAIINSLPTKKSPGPDGFTAEF YQRYKEEMHINRAKDKNHMIIS IDAEKAFDKIQPFMLKTLNKL GIDGTYFKIIRAIYDKPTVNIILN GQKLEAFPLKTGTRQGCPLSPL LFNIVLEVLARAIQKEKEIKGIQ LGKEEVKLS\LFADDMIVYVEN PLPSQPQNLL*GWLSNFSK/MSS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQFTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWVGRINIVK\MAILP
6925	37293	B	6976	1	2431	

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6926	37294	A	6977	1	1921	MGESVQSLTLAQKRSMMIQV AVAPRTPTLLKLYKEKASKTQ LKKVNLVVQDQGSLESIEVHD HEPADTYKLLSLVKEPAEEIPR VIQNVFGHRSKKENLKDSYGLR QSSTMVATTWNNVSLMQHHSL RRPNRHLTASYPHFHFQEIPVNF FHSGRDSSEFGWNQHIKKDKE GHHIMVKGSIQQEELTMLNIYA PNTGAPRFINQVLSDIERDLDSH KIIMGDFNTPLSTLDRSTRQKV NKDTQELNSALHQADLTDIYRT LHPKSTEYTLFSAPHHTYSKIDH IVGSKALLSKWKRTIITNCLSD PRAIKLELRIKKLTQNRSSIWKL NNVLLNDYWVHNEMKAEIKIF FETNENKDTSCQNLWDTFKAV CRGKFIALNAHRRKQERSKIDT LTSQLKELEKQERTHSKASRRQ EITKIRAEMKEIETQK\TLQKINE SRSWFFEKINKIDRPLARLIKKK REKNQIDAIKNNKGDITTDPTI ETTIREYYKHLYTNKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEVVAIINSLPTKKSPGPDG FTAEFHQRYKEKLISELLPMPN HTALKKQTQDLSDCKAMFLYY QSVSVQTAIINYHRLRGLNNRN LFLTVLEYSSLRSGCEHSRVL

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6927	37295	A	6978	1	1848	MSLTkMLICAALLGLFCMLLGL RWQVAELIGMTLALSSTAIA QAMNERNLMVTQMGRSAFAV LLFQDIAAIPLVAMIPLLATSSA STTMGAFALSALKVAGALVLV VLLGRYVTRPALRFVARSGLRE VFSVALFLVFGFGLLLEEVGL SMAMGAFLAGVLLASSEYRHA LESIEPFKGLLLGAVFTPRVVV NIYSSELRTAKNYQANGKQKK PGVAILVSDKTAF/KPTEIKRDK EGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDL SHTLMMGDFNTPLSTLDRSTR QKVNKDTQELNSALHQADLIDI YRILHPKSTEYTFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLTQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDMTYQNLWDT FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEIETQKAIQ KINESRSWGPPGNCQQNYRNSE SGEKSAPEGQAQAHAGPTEGKV PTFLYVGKEKFPPSYLLTRKSSH LPTCGDPICGEKCWRVPTTSGQ GNKADQWGGVIGDTHDSA
6928	37296	A	6979	1	2235	
6929	37297	A	6980	1	2955	

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6930	37298	A	6981	3	2156	KSLKDLMELEKIMAEQELCDEWT SLSSRCNQLEERSVMEDEM EMKDKHRPKIKWRKIYQANG QQKKTRVANLVSDKTEFKPTKI KRDKEGHYIMVKGSIQQEELTI VNIYAPNTGAPRFIKKVLSDLQ RALDSHTIIMGDFNTPLSTLDRS TRQKVNKDIQELNSALHQADLI DIYRTLHPKSTEYTFSSAPHYTY PKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELKIKKLTQNL STTWKLNLLKDYVWHKEM KAEIKMFFETNKNKDTTYQNF WDTFKA VCRGKFIALNAHKRK QEGFKIDTLTLQLELEKQEQT HSKASRRINKIDRPLARLIKRR EKNQIDTIKNDKGDITDPTIEIQ TTIREYYKHL YANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGAEIVAIINSLPTKKSPGPDG FTAKFYQRYKEELVPFLKLQF SIEKEGILPNSFYEASILIPKGR DITKKENFRPISLMNIDAEILNKI LASQMQQHIKKLIYHNQVGFH GMQGWFNHKSINVIQHINRTK DKNHTIISLDAEKAFDKIQPF MLKLTNLKLGIDGMYLKIIRA IYDKPTANIILHWQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AVRKEKEIKRTQIGREEIKSLF ADDMIVYLENPIVSAQNLLKLIS NFTKVSGYKINVKKSQAFLYN
6931	37299	A	6982	3721	8717	MLPIKRHRLANWIKSQDPASVC CIEETHLTCRDAHRHKIKGWR KIYQANGKQNKTKQKKQGLQ ILVSDKRDFKPTIKRDKEGHYI MVKGPIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLDIYRTLH PKSTEYTFSSAPHTYKIDHIL GSKALLSKCKRTEITNYLSDH SAIKLKLRIKNLTQNHSTTWK LNNL

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6932	37300	A	6983	599	1074	NPRAWWEKQPPTSPQEFCLVCF VVHLQKSTREALNNKNIKPLLS TFSQVPG/SINHSSCENVLAHSL AIGGVTEGICTASTPFVLLGDVL DCLPLDQCDTIFTFVEKNVATW KSGTASLPAAFMAGVEHLWLF QVNGANCQWIYPSGVWRTVAL FSQLH
6933	37301	A	6984	1	312	
6934	37302	A	6985	2	484	QSRALLWPMMLVDVIQPKPWKA PGSLGLPSCISAITVQSSPGLRLC SCGQGPRVNTPGTKLPQPNRPV SLSFSQMKLLTSSHWKSFHCPA *INPAQSSPGPWP*PQLSGCPAF QFLSFG*KSLSSGNTASSSPLW FLCWCFLNLVLQAKLPDGFPA HRV
6935	37303	A	6986	234	405	ELKICSCDPITVRYNADDSTVSL SFSQMKLLTSSHWKSFHCPA*I NPAQSSPGPWP
6936	37304	A	6987	1	2021	PTRPAAAQWRARAAEKMSPTP PLFSLPEARTRFTKSTREALNNK NIKPLLSTFSQVPGSENEKKCTL DQAFRGILEEEIINHSSCENVLAI \ISLAMGEVTEGICTASTHFVLL GDVLDCLPLDQCDTIFTFVEKN VATWKSNTFYSGKNYLLRMC NDLLRRLSKSQNTVFCGRIQLF LARLFPLSEKSGNLQSQFNLE NVTVENTNEQUESTLGQKHTED REEGMDVEEGEMGDEEAPTC SIPIDYNLYRKFWSLQDYFRNP VQCYEKISWKTFLKYSEEVLA VFKSYKLDDTQASRKKMEELKT GGEHVYFAKFLTSEKLMDLQL SDSNFRRHILLQYLILFYLYKGQ VKFKSSNYVLTDEQSLWIEDTT KSVYQLLSENPPDGERFSKMVE HILNTEENWNSWKNEGCPSFV KERTSDTKPTRIIRKRTAPEDFL GKGPTKKILTGNEELTRLWNLC PDNMEACKSETREHMPTLEEFF EEAIEQADPENMAENEYKAMN NSNYGWRAKLLARRSPHFFQP TNQQFKSLQEYLENMVIKLAKE LPPPSEEIKTGEDEDEEDNDALL KENESPDVRRDKPVTGEQIEVF ANKLGEQWKILAPYLEMKDSEI RQIECDSEDMKMRKQLLVAW QDQEGVHATPENLINALNKSGL SDLAESLTNDNETNS

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6937	37305	A	6988	155	811	EFYRTGKVHRAPGVQEVTEDP RDPLAQLATRDKERRGSLDH LALRVREAQLDQLVPPESVAA KDLKAPRAPKAPVVPPLGSPALR APVGTQAPRAHQAKRDSPALR ALLASRDFRAPLGSGLCLDLGD CQACLG YQACQAPRAPALLA HQERWCPWPCRMSPQHRRT MAARLTGRTSQT NATIFQLRKK FLRMQSFSVKTS LHILFS*TLER NSNG
6938	37306	A	6989	91	918	
6939	37307	A	6990	199	380	CSTSSRTY*IPSRCSK*HWRH TVNSNFGPMGNPSHPTTSSAHH TVPLIESQPSSTSKK
6940	37308	A	6991	1	483	
6941	37309	A	6992	178	298	
6942	37310	A	6993	864	1298	RLQNRTILASDLGSDRWRRTY RCL*RHGPRFSSCRLSCRPFDK TCRLMCHQRLSGFPQEQTQRDS RCIQLLFRQRF AAASCP THQVH VHRWRKPMVFLILESDLKYTV LSLPEECHTGAHEQSSHCLLLSL ASVDVHCSQRP
6943	37311	A	6995	2	348	KKKRKKKIEEEEEEEEEEEEEEE REEEGDEEQEEEEEE EEEEEEE EEEEEEEEEDDDDDNGLLQTL PGLHEMRVNLTRSDGIISVWHF PFWHFSFLMPYEEGALLRLHLP
6944	37312	A	6996	1	192	
6945	37313	A	6997	1	507	MEKNEKEQEEEEKKEKNSKKK EEEEEEGGGEEEEEGEGGEE EEEEEEEEEEEEEEEEEEEEEE EEE/DKEEEEEEEEEEEEEEE EEEEEEEEEEEEEE EEEEKVVE EEDEFIWFLGNSLYFPSFSHFA WSQIPSREDEGERRLRVNSMIM DFTSNTNHVQLIVAR
6946	37314	A	6998	1	257	MGPIHKISHYVYANISKSEKVL KSEHFRSQAQPGQQSETVSEK/ EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEI
6947	37315	A	6999	1	156	
6948	37316	B	7000	1	757	
6949	37317	A	7001	1	279	

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6950	37318	A	7002	1	1226	MPSSKGVHVSPPRYLAAKDF KMINKELTAATFMEVIAEDNRF IYDGIDSNFEPELVFLEFFEALLS FAFICVTDQMTKSYTNVPADD VSGNKHETIYTILNQDAQNKSP SAVMSHESDAAHSDSARSSSSK LELSPDVNKIRKSEAMVKEKKK ADKKGEKSARSPPSLSDNLDPS KQDGNTRQEMSPAGVPLLGM QLNEVKPKKDRQNVQQNE/GC HPIRRVHSDQTHSGKL*RGKGS W/DCMREKASQPFKAVVPIV*V /VPFENLQEGEEGRCLCEECPEP RRVHVAGRSMYEGEVVNGMR NGFGMFKCSTQPVSYIGHWCN GKRHGKVGEVATWRAEKKKK EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEKIRP
6951	37319	A	7003	3	123	
6952	37320	A	7004	2	458	
6953	37321	A	7005	239	432	CLWLFQEEEEEEEEEEEEED*EEE EEE/EEEEEEEEEEEEEEEEEEEE EEEEEEEEEEKIFLGHRVGI
6954	37322	C	7006	7	162	
6955	37323	A	7007	39	2154	
6956	37324	A	7008	1	639	
6957	37325	A	7009	1	651	
6958	37326	B	7010	1	684	
6959	37327	A	7011	3	428	TRFQGVYLP LLWEQSF/CWKSPI ALGYTRGHFSALVAMENDGYG NRGAGANLNTDDDVTITFLPLV DSERKLLHVHFLSAQELGNEEQ QEKLLREWLDCCVTEGGVLVA MQKSSRRRNHPLVTQMVEKW LDYRQIRPCTSLF
6960	37328	A	7012	2	800	

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6961	37329	A	7013	1	930	DHNSSPAMEQNW MENAFDELT EVGFRRWVITNFSKLKEHVL TQ CKEAKKLEKRLEELLTRITSLEK NINDLMELKNTS QELREAYTTE ERISEIEDQLNEIKHEDRIREK/R/ VKRNEQSLQEIW DYVKRPNLH LT/GVPESDGENG TKLENTLQDI IQENFPNLARQ ANIQEIQRTP QRYSSRRATPRHIIIRFTKVEMK EKMLRAAREKGQVTHKGKPIR LTADPLAETLQARREWGPIFNIL KEKNFQHRMSYP AKLSFISVGE IKYFTDKQMLRDFVTT RPALQE LLKDALNMERN NQNQSLQKHA KL
6962	37330	A	7014	1	870	
6963	37331	A	7015	1	585	
6964	37332	A	7016	1	1032	
6965	37333	A	7017	2	770	
6966	37334	A	7018	1	2910	
6967	37335	B	7019	239	462	
6968	37336	A	7020	3	694	
6969	37337	A	7021	1	1212	
6970	37338	A	7022	1	1140	
6971	37339	A	7023	1	570	
6972	37340	A	7024	1	486	
6973	37341	A	7025	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVAVRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRFGFVAIYLT EPLVRGFTTAAAVHVFTSM LK YLFGVKT KRYSGIFSVVYSTVA VLQNVKNLNVCSLGVGLMVFG LLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSELKEHI LTQCKEAKNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIR\ EKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKG NPIRLIADLSADTL QARRQWEP IFNILKENFQTRISH
6974	37342	A	7026	1	1080	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
6975	37343	A	7027	1	3501	MIVYLENPVSAQNLLKLISNFS KVSGYKIYKIDVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY PGIQLTRNVKDLFKENYKPLLN EIKEDTNKWKNIPCSWIGRINIV KMAILPKVIYRFNAIPIKLPMTS FTELEKTTLKFIWNQKGARIAK TILSKKNKVGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEASEITPPIYNHLIFDKPDKN KKWGKDSL FNKWCWENWLAI CRKCLKDPFLTS
6976	37344	A	7028	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDDELTEIGCRRWV ITNSSELKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTIINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
6977	37345	B	7029	1	579	
6978	37346	A	7030	1	927	
6979	37347	A	7031	1	1362	MAAGRHLPGADRHLIQESTG WHLGAPLGWSFQRKEQTAIF AVLQPLLVIPRQTGYGVDLQQ MPADLQQRFLT VRRKTNKQKG IVSTSTKRTSSEGHQHQRKVD KFTENGRNQHKKAENSKNQN ASSPAPKDHNSLPAREQNWTE N EFDELTEIDFRRWVITNSSQTKG SMF*P*CKEAKNLEKRLDELLT RITSLEKNINDPMELKNTAREL REANKSINS*IDQGRKERVASEIE DQLNEIKREDKIREKRMQRNK QTLQEIW DYVKRPNLHLIGVPE SDRENGTKLENTLQDIIQENFP NLARQANIQIEIQRTPQRYSSR RATPRHIVRFTKVEMKEKMLR AARKKGQVTHKGKSIRLSADFS AETLQARREWGPIFNILKEKNF QPKISYPAKLSFISEEEITSFTDK QTLRDFVTTRPALQELLKEAVN MERKNQYQPLQKHTKM
6980	37348	A	7032	1	598	
6981	37349	A	7033	3	787	
6982	37350	A	7034	61	284	RLLEPQGPLRAGSSPAGK/IGGT LERRGMPWPGP/HSEGGLSPLL LGASLAAAPHGEMPSVRVHPV RPSSRDCSSRV
6983	37351	B	7035	743	1683	

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6984	37352	A	7036	1	1137	
6985	37353	A	7037	1	663	
6986	37354	A	7038	1	197	
6987	37355	A	7039	1	291	
6988	37356	A	7040	3	342	
6989	37357	A	7041	1	439	
6990	37358	A	7042	3	253	
6991	37359	C	7043	1	210	
6992	37360	A	7044	1	165	
6993	37361	A	7045	1	346	
6994	37362	A	7046	1	389	
6995	37363	C	7047	1	464	
6996	37364	A	7048	1	1806	
6997	37365	A	7049	491	1640	
6998	37366	A	7051	188	383	
6999	37367	A	7052	1	759	
7000	37368	A	7053	1	1683	
7001	37369	A	7054	1	972	
7002	37370	A	7055	1	429	
7003	37371	A	7056	3	753	DQTFWGLLETG/S/ELMLIPGDP KCHCGPPVKVGAYGGQEIKGV LAQVQITVGPVGTTRHPVVISP VPECIIGIDILSSWQNPHTGSLTG RVRVIMVEKAKWKPLELPLPR KIVNQKQYCIPGGIAEISATIKD LKDTGVMIPPTSPFNPIWPVQ KTDGSWRITVDYQVVTPIAAA VPDVVSLLEQINTSPGTWQHIT HLDVLLWRIYQVTQKAASF EW GPEQEALQQVQA AVQA\ LCH LGHMTQQIQWCL
7004	37372	A	7057	2	430	
7005	37373	A	7058	1	1515	

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7006	37374	A	7059	1	1523	MGEERRWRPSSNGKHGAF AEL DKGWL V WLEGKGVIGARRSW RAHSALIKICVQQIKDSLPGKM SKGLLQQQKPKHLLHDLYKA MSTRWGVQKARLNCTALPPTG CVTLDPSTLTPQFPRQLSEDL LTREALEKEVQLRRQLQQEKEE LLYRVLGANASPAFPLAPVTPT EVEKERELELRDRLDEQQRVLE GKNEEALQDPRLVDPLTSCVTH FEKPQMLNARLWKHAGREAV ACKVRGSELPKTMGTYPLHQH DL D V R H G V K G D H F G A L R F D C P AGFWTCMGPLAPSWPISPIWN GPPLDISGYPATSTQKSTMCLRI IDTRLHPESRLKQQSNFALNAR EKALQQVQAAVQAAALPLGPYD PADPMVLEVSADRDAVWSL WQAPIGESQQRPLGFWGKALPS SADNNSPLERQLLARYWALVE TEYLTMGHQVTM*P/ELPIMNW VLSDPSSHVVYA WQHSIIKW K\ D R A * A G L A G T S K L H E E V A Q MPIVSTPATLPSCRIL
7007	37375	A	7060	1	2190	
7008	37376	A	7061	286	430	
7009	37377	A	7062	205	514	LWSLCAPVLQVPCLR AAFPVFT RRHAPSAGRGFTRSYVSAGSW TETQQGLWGS LTKLGADGLLL GISKHLVEFLQIFQISGCWGHYC YLQILFFALNSISPSYHVLLFNV QFGFIFNFMVLCVP*AGTHIAPC KSSSRTRGMSSCENWKGCSKA RHLQYWSTKTPQSLSFCCGIH FVTAVCQP
7010	37378	A	7063	1	487	
7011	37379	A	7064	1	1212	
7012	37380	A	7066	140	453	
7013	37381	A	7067	1	3341	MGKKQNRKTGNSKNQSASPPP KERSSSPATEQSWMENDFDEL R EEGFRLSNYSELPEDIQTKGKE VENFEKNLEECITRITNKRNFKP TKIKRDKEGHYIMVKGSIQQEE LTILNIYAPTGA PRFIKQVLSDR QRDLDFHTLIMGDFNTPLSTLD RSTRQKV N K D T Q E L N S A L H Q A DLIDIYRTLHKSSTEYRFFSAPH HTYSKIDHLLGSKAFLSKCKRT EIITNYLSDHSAIKLELR IKNLTQ NRSTTWKLN
7014	37382	B	7068	1	1785	

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7015	37383	A	7069	1	1141	MVTWNFIQERNNGSGMDQCDD GGGKILDPVYILTVELTGFAKG WKMFSVKDQSVNVLGFAGYPL ITQTARKGAGKIPTWASLRQYQ KGLGSKYQLRRALRPDCALGN GQGVRYCNSLDEEEKRELKLFSS SQRKRENLRGNVRPFPVTMT GAICEQCGGQINGGDIASFASR AGHGVCWHPPCFVCTVCNELL VDLIYFYQDGKIYCGRHHAECLE KPRCAACDEIIFADECTEAEGR HWHMKHFCCFECETVLGGQRY IMKEGRPYCCHCFESLYAEYCD TCAQHIGHAGSFIKEC/SRRLLP GEAEI/SRRATVICLVRVSVRPE AASKSPNMRRKRKRKGACPLS SVGPVIPSVP*NTQRT*RPQSRP LGAPWNPWPCLMQ
7016	37384	A	7070	1	2388	VHQYYSCLPPEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLR RGNVRPFPVTMTGAICEQCGG QINGGDIASFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHAECLEKPRCAACD EIIFADECTEAEGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGGHWHATETCFCC AHCKKSLGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA GPRSPGAVPKLARTRARRGAH AEPAQPAASEF*PAVSRRRPPVT ADGHAQPVQPDTPQPGPHLE EPGRALPLWEQDGAEPDPEPSA APRQCNIRTSYSPGGQGAGAQA PEMWGKHFSNPKRSSSLAMTG HAGSFIKECREDYYPGRRLRSQE SYSDMSSQSFSETRGSIQVPKYE EEEEEGGLSTQQCRTRHPISL KYTEDMTPTQTTPRGSMESESL SNATGLSADGGAQRQEHLRSFS MPDLSKDSGMNVSEKLSNMGT LNSSMQFRSAESVRSLLSAQQY QEMEGNLHQLSNPIGYRDLQSH GRMHQSFDGGMAGSKLPGQ EGVRIQPMSETRRRATSRDDN RRFRPHRSRRSRSDNALHL ASEREAISRLKDRPPLRAREDY DQFMRQRSFQESMGHSRRDL
7017	37385	A	7071	1	807	

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7018	37386	A	7072	500	2666	YCLRLAQVGIFPAPSRAWVPDL DPESRLCCFPSLGSLANPTAVG LEEDREQDVGTTSSRGGAWDTRI KRELEKMSEKCGGQINGGDIIV FASRAGHGVCWHPPCFVCTVC NELLVDLIIFYQDGKIYCGRHH AECLKPRCAACDEIIFADECTEA EGRHWHMKHFCCFECETVLGG QRYIMKEGRPYCCHCFESLYAE YCDTCAQHIGEAIFGSQLGPSV MRSPLFWGVGIAAALDAVLIR AHQRTQGCHHELSALLAFEKG SEKKEEEEQGVSRSSSLKVQA QELSATEDKGHISPFWEAVYH YASGECRGPYPYSHSLRLYSQ QALPTGRGPSSQFPFCQFYCC YKKSLLCDCLSKSPAELKAMR GIDQGMQTYDGGHWHATETCF CCAHCKKSLGRPFLPKQGQIF CSRACSAGEDPNGSDSSDAFQ NA\GPRSPGAVPKLARTRARR\G AHAEPAPPAASEF*PAVSRRRP PVTADGHAQPVQPDTPQPGP HLEEPGRALPLWEQDGAEPDPE PSAAP\RQCNIRTSYSPGGQGAG AQPEMWGKHFSNPKRSSSLAM TGHAGSFIKECREDYYPGRRLRS QESYSDMSSQSFSETRGSIQVPK YEEEEEEEGGLSTQQCRTRHPIS SLKYTEDMTPTETQTPRGSME SLALSNTGKTCSVTFQAKETCR YQDAQFGKVVKARVKERQSLWS
7019	37387	A	7073	1	2239	
7020	37388	A	7074	1	282	
7021	37389	A	7075	2	430	GFGAQDPKSLALRTHCQTSGW/ SLTEQDPYNNVIRTTIEALAATL GGTQSLHTNVFDEALGLPTDFS ARIARNTQIIHQESELCRTVDPL AGSYGGAIQQIDVAGGLAKRI EAGLSKRMIEEASAREQALIDQ GKRVIVGVT

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7022	37390	A	7076	1	1561	MVTLILYFRFYRLNGDTLRRIQI HLLDKYRKVPPEPVHADIPVGA RRFSRPCSWFLRITKRGYRRTV HAMAGQKEKLLGAGMSDYLA KPIEEERLHNLLRYKPGSGISS RVVTPENVNIVNPNATLDWQ LALRQAAGKTDLARDMLQML LDFLPEVRNKVEEQLVGENPEG LVDLIHKLHGSCGYSGVPRMK NLCQLIEQQLRSGTKEEDLEPEL LELLDEMDNVAREASKILGPDK THLRRIRRDVLATDPRPARDRR KACLHACVLRTPPLGAARAIHQ QIDEAGGMAKAI EAGLPKRMIE EASAREQSLIDQGKRIVGVNK YKLDHEDETDVLEIDNVMVRN EQIASLERIRATRDDAAVTAAL NALTHAAQHNNLLAAAVNA ARVRATLGEISDALEVAFDRL VPSQCVTGVI AQSYHQSEKSAS EFDAIVAQTEQFLADNGRRPRI LIAKMGQDGHDRGAKVIASAY SDLGFDVDLSPMFSTPEEIARLA VENDVHVVGAS\SLAAGRSR
7023	37391	A	7077	1	354	
7024	37392	A	7078	1	1116	
7025	37393	A	7079	1	450	
7026	37394	A	7080	1	252	
7027	37395	A	7081	1	242	
7028	37396	A	7082	1	242	
7029	37397	A	7083	1	9228	
7030	37398	A	7084	3	664	
7031	37399	A	7085	3	718	
7032	37400	A	7086	380	1038	WTRWRASAADNLAHGRWGEG KLVVTTGASGAPDRQAARCAA SAKISWYRSKGSKHPLTPKEVE KTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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7033	37401	A	7087	380	920	WTRWRASAADNLAHGRWGEQ KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGSKHPLTPKEV EKTGWGLKIPG/MGQQQLPERV KEAARILELDGLLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVE
7034	37402	A	7088	1	258	
7035	37403	A	7089	3	208	
7036	37404	A	7090	34	125	
7037	37405	A	7091	1	393	
7038	37406	A	7092	1	690	MVAPVYIRDQYSALITNIGKGD HTTFVKPNIPATGEFKGVGFLE APRGMLSHWMVIKDGIISNYQ AVVPSTWNSGPRNFNDVGPY EQSLVGTPVADPNKPLEVVRTI HSFDPCMAWVGNILLTDEAIGV RIVEALEQRYILPDYVEILDGGT AGMELLGDMANRDHLIADAIV SKKNAPGTMMILRDEEVPALFT NKISPHQLGLADVLSDLRFT\GE FPKKLPWVQA
7039	37407	A	7093	82	224	
7040	37408	A	7094	1	239	
7041	37409	A	7095	1	1062	
7042	37410	A	7096	1	221	
7043	37411	A	7097	1	1067	
7044	37412	A	7098	1	1545	
7045	37413	A	7099	1	2820	
7046	37414	A	7100	1	1223	
7047	37415	A	7101	1	3087	
7048	37416	A	7102	1	1182	MDKFLDITYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAFAFDKIQQPF MLKTLNKLALQNLKLSNFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNI PCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMFTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNRAPSEI TPHIYNYLIF

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7049	37417	B	7103	1	1722	
7050	37418	A	7104	1	3513	
7051	37419	A	7105	1	2546	MSELPFTIATKRIKYLGIQLKSD VKDLFKENYKPLLNEIREDTYK WKNTPCSWIGRINIMNMAILPK VIYGFNAILIKLPLTFFTELEKTT LKFTQSLKRAHIAKTILSKKNK AGGIMLPDFKLYYKATVTKTA CTIHNSKDLEPTMPSNDTLDK ENVAYIIHHGILCSHSGRVHIL CRDMDEAGNHHSRQTNTGTEN QTLHVLTHKWELNDENTWTQ GGEHHISGPVRTNNKNNHMIISIG AEKAFDKIQPFMLKTLNQLGI DGTYLKIIDIFDRPIANILLNGQ KREASPLKTGTROGCPLPPLLF NIVLEILARAIQEKEIKGIQLG KEEVKLSLFADDMIIYLENPIVS AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQILSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTNKWKNIPC LSIGKINIMKMAILPKVIYRFNAI PIKLPMTFFTELEKTTLKFIWNQ KRARIAKTILSQKNKDGGITLPD FKLYYKATVTKTAWYQYQNR DIDQWNRTEPSEIIPHVYNHLIF DKPDKNKKWGKDSL FNKWCW ENWLAICGKLKLDPFLTPYTKI NSRWIKDLNVRPKTIKTLEENL GNTIQDIGMGKDFMSKIPKAM ATKAKIDKWNLIELKSFCTAKE TTISVNRQPTWEKIFAICLSDK GLISRIYKELKQRHKKKTNNPIK
7052	37420	A	7106	1	2575	
7053	37421	A	7107	1	875	
7054	37422	B	7108	1	3421	
7055	37423	A	7109	1	3790	MELKTKARELREECRSLRSRRN QLEERVSADEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
7056	37424	A	7110	134	307	

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7057	37425	A	7111	2	173	RPPRSEVPGPLSPGRPPAAGLRG R*PAGVRGLREPRAFSGVRVER RSLFIGKDMFDS
7058	37426	A	7112	888	1016	VPGEIHALHSADRQHENA*NAR TRWQHAQSGRSPLFLALSRE
7059	37427	A	7113	573	872	SPSLLPDPDAHVGC*SRSRKRPD RIRRFDSR*NGLFYCRKTS*PFH *G*MCQ*YQTDPRSNAQCHPVL LRLWWPGDEYDFLCRSGSVGS VRQSGRASGL
7060	37428	A	7114	1	654	
7061	37429	A	7115	71	2776	
7062	37430	A	7116	31	1016	TVLPERPYNRKSSRRNRGNGP PARSFCPSSGRSRRSSSPATGP/ HTAIASALPRIAFGKISDSSTQH TGPQDMAKAAT*NSLRGSMRY SFKPMVGRWIKSCLRVPWC
7063	37431	A	7117	279	1243	SVLLMCAADYLPRPPDVQTCN AVRVWLRVHRSNHGTTPDFSP GPVSAWYYAH/QPKIPIWSQ/QR GFTD/R*TRHKCPQRFAPDK*I SSPD*AMNYRKHRRPAPRHTA PTQKARLMADKSSLRHRHNSA NKRRSASPLSSAGYP/GKRIRAQ NLIPASTTNGQLRIRQRISQAR **TKRMARKGSISPISAVSNSLN SS*ASIIVSSCIRCSALSPLSNIHK S*TAGPWGASSRKTNIGLSRQRI FPAWQSPCSRRTVKSSRQCAVT AAISSVAFRNAAFNPEGISVAS SNSLRGSMRYSFKPMVGRWIKS CLRVPWCIRPK
7064	37432	B	7118	1	726	
7065	37433	A	7119	1	138	
7066	37434	A	7120	56	133	
7067	37435	B	7121	1	1524	
7068	37436	B	7122	1	1521	
7069	37437	A	7123	1	1494	
7070	37438	B	7124	4	1698	

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7071	37439	A	7125	1	1725	MELKTKARELREECRSLRSRCD QLEERPNI RLIGVPESDGENGT KLENTLQDIIQENFPNLAKQVN VQIQEIQRTPQRYSLRRATPRHII VRFTKVEMKEKMLRAAREKGR VTLKGKPIRLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNRS WFFEKINKIDRPLARVIKKKRE KNQIDAIKNDKEDITTNPTEIQTII IREYYKHLYPNKENLEEMDTF LDTYTFPRLNQEEVESLNTSITG SEIVAIISIA YQPKKVQDQMDPQ PNSTRVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKCLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFFTDLEKTTL NFIWNQKRARITKSILSQKNKA GGITLPDFKLYYTATVTKTAW YWYQNRWY WYQNRDIDQWN RTEPSEITPHVYNYLIF
7072	37440	A	7126	1	2478	

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7073	37441	A	7127	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEAESLNKPITGPEIEAII NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNIHKLINVIQYINRTKDK NHMISIDAEKASDKIQPFMLK TLNKLIGDGYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLRARIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGQILT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSLFNKCWEIWLAIKRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTLEESLGIQDISMGKKFTS
7074	37442	A	7128	1	1908	
7075	37443	A	7129	1	1494	
7076	37444	A	7130	2	1562	
7077	37445	B	7131	1	1569	
7078	37446	A	7132	1	1593	
7079	37447	A	7133	1	1520	
7080	37448	B	7134	1	2796	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7081	37449	A	7135	101	1686	SIAYQPKRVQDQMDSQPNSTR ANIILNGQKLEAFPLKVTGTRQF SKENFEPLSPLLFNIVLEVLARA IRQEKEIKGIQLGKEEIKLSLFA DDMIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKQNYKPRLKE IKEDTNKWKNIPCSWVERIYIV KMAILPKVIYRFSAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKDT VTKTAWYWYQNRDIDQWNRT EPSEIMPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLALCR KLKLNPF LTPYTKINSRWIKDL NVRPQTIKTLEENLGITIQDIGM GKDFRSKTPKAMATKAKSDK WDLIKLSFCTAKETTIRMNRQ PTKWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDIN RHFSKEDIYAAKRIHMKKCSSSL AIRQM QIKTTMRYHLTPVRMAI IKKSGNNRDMDEIGNHPSQ
7082	37450	A	7136	1364	3024	TEPKTKTT*LSQ*MQKRPLTKF NNASC*KLSIN/IVLEVLARAIQ EKEIKGVQLGKEEVKLSLFADD MIVYLENPIVSAQNLLNLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNER KEDTNKWKNIPCSWVERINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYSYQNRDIDQWNRT PSEILPRIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLKPYTKIKSGWIKDLNV RPKTIKTLEENLGITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCTAKETTIRVNRQPTER EKIFATYSSDKGLISRIYKELKQI YKKRTNNLIKKWVKDMNRHFS KEDVYAAKKHMKKCSSSLAIR EMQIKTTMRYHLTPVRMAIHKK SGNNRITIVLLPGSLIVRSFHVTL NAILLHPGLTLFSPSAGRDI PR VAFSYLAFSAQPSHNTPVN
7083	37451	A	7137	1	2274	
7084	37452	A	7138	2	2348	

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7085	37453	A	7139	1	2202	
7086	37454	A	7140	1	2823	
7087	37455	A	7141	1052	3831	RHKKPFKKSMPGAGFFERINK IDRPLARLTKRKREKNQIHAIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEIESLNRPITGAEIVAI NSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILPNS FYEASINLIPKGRDTTKKENFR PISLMNIDAKILSKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIC KSINVIQHINRTKDKNHMIIISID
7088	37456	A	7142	1	327	
7089	37457	A	7143	1	446	
7090	37458	A	7144	382	1485	
7091	37459	A	7145	1	378	
7092	37460	A	7146	2	217	
7093	37461	A	7147	1	483	
7094	37462	A	7148	1	1260	
7095	37463	A	7149	1	891	
7096	37464	A	7150	5	182	RQGLLVSPRLVQKGEIRTPGLK RSSRLDLQKC*DYRHEPSSLAS EAPSVWVLLPPWRQS
7097	37465	A	7151	1	1914	

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7098	37466	A	7152	1	2200	MKLTTHRENMA LTNGFCHHIA AQQNLYTNTLLAARIKQRLTEQ FELMLRQAQIDFAGKAHSLTEA QANTTQVSAERDRLFKNYQRY LKGSQAAVNPFSERDIDDARQN FLAQDALAQIQS QLD SLVNGEQ SQIVSLKAQLAEAKYNLEQTIV RAPSNGYVTQVLIRPGTYAASL PLRPVMVFIPDQKRQIVAQFRQ NSLLRLAPGDDAEVVFNALPG KVFSGLAAISPAVPGGAYQST GTLQTLNTAPGSDGVIA TIELDE HTDLSALPDGIYAQNPNL KIV ELKAPQLPRSLDDAQIALAVIN TTYASQIGLTPAKDGIFVEDKES PYVNLIVTREDNKDAENVKKF VQAYQSDEIPCRTRSKHCTPAE SGACKTESAARHAGPNLYQCR RIRSANRSAISVKGWRTPCIPDS LPAVEWLT YGSGYLAGMKLGD TPLVEYTRDRLHRETLRSFGRY ELTTAYTPAGQLQSQHLNSLLS DRDYTWNDNGELIRISSPRQTR SYSYSTTGRLTG VHTTAANLDI RIPYATDPAGNRLPDPELHPDST LSMWPDNRIARDDNYLYRYDR HGRLTEKTDLIPEGVIRTD DERT HRYHYDSQHRLVHYTRTQYEE PLVESRYLYDPLG\RRVAKRVW RRERDLTGWMSLSRK PQVTWY GWDGDRLT TIQNDRTRIQT IYQ PGSFTPLIRVETATGELAKTQRR
7099	37467	A	7153	719	1575	
7100	37468	A	7154	1	239	
7101	37469	A	7155	1	735	FNDDSP EARKITRRWRIGEAAD LVGVSSQAIRDAEKAGR/LPHP D\MEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPPVIGV AAHKELNNDYTSKKVMKPLIT SNTVTDEIERANVLKMNGK WY LFTDSRGSKMTIDGINSNDIYM LGYVSNSLTG PYKPLNKTGLVL QMALDPNDVTFTYSHFAVPQT KGNNVVITSYMTNRGFFEDKK ATFAPSFLMNIKG NKT SVVKNS ILEQGQLT
7102	37470	A	7156	1	4368	
7103	37471	A	7157	1	1452	
7104	37472	A	7158	1	516	
7105	37473	A	7159	1	743	

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7106	37474	A	7160	3	1743	DSPE\ARKITRRWRIGEAADLV GVSSQAIRDAEKAGRLPHPDME IRGRVEQRVGYTIEQINHMRDV FGTRLRRAEDVFPPVIGVAAHK GNDPQGTASMYHGWVVDLHH AEDTLLPFYLGEKDDVTYAIP TCWPGLDIIPSC LALHRIETELM GKFDEAQPNLGIGTINVVCAAD VLIVPTPAELFDYTSALQFFDM LRDLLKNVDLKGFEVDVRIILT KYSNSNGSQSPWMEEQIRDAW GSMVLKNVVRETDEVGKGQIR MRTVFEQAIDQRSSTDTSSTP AAPMVDSL IARVGV MARGNAI TLPVCGRDVKFTLEVLRGDSVE KTSRVWSGNERDQELLTEDAL DDLIPSFLTGGQTPAFGRRVSG VIEIADGSRRRKAALTESDYR VLVGELDDEQMAALSRLGNDY RPTSAYERGQRYASRLQNEFAG KYFLRWLMRKIFHIITRCINTAK LPKSVVALFSPHGELSARSGDA LQKAFTDKEELLKQQASNLHE QKKAGVIFEAEVITLLTSVLKT SSASRTSLSSRHQFAPGATVLY KGDKMVLNLD RSRVPTECIEKI EAILKELEKPAP
7107	37475	A	7161	1	438	
7108	37476	A	7162	1	3216	MKLMETLNQCINAGHEMTKAI AIAQFNDDSP EARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKKRTTLAPNTQTASPRALA DSLMLARQVSRL/VKRAPTC WPGLDIIPSC\ LALPRIETELMGK FDEGKLPTDPHMLRLAIETVA HDYDVIVIDSAPNLG
7109	37477	A	7163	1	513	

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7110	37478	A	7164	1	2027	MRGHREKAAACKPRTRASEGT TPASTFILDFFPPNCNYTSGDNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSACKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLFTDSRGSMTIDGINSN DIYMLGYVSNLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGILCEEDNYTAGDNHM MRAPHCEEDRAHKFVVFDA GTESGHQGEESLFNRACGGGGT FFSKESQKLQQSACKRDCINA GHEMTKAIAIAQFNDDSPARK ITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGRTRKR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGSLLPKND FLFKLGLEGLPLGKIHSPTGA DVARGSSGLPKSELFPERNTQ ELQQDSEEGPLALQVLQSNLM DFADFGTTIKQDFRLLGQTSVD RLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQNNDGIC EIHVAKYVEIFGLTSAEASKDIR QALKSFAGKLVVFYRPE/VGCR R*KRL*IFSLVYQTCAQSIQRAL QCTYQPISHSLLYRVTEPVYAV
7111	37479	A	7165	1	750	
7112	37480	A	7166	1	723	
7113	37481	B	7167	1	1156	
7114	37482	A	7168	1	999	
7115	37483	A	7169	1	529	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFVAGDEKGYESFPWF IKTCA\HPSRGLYSVHINPYLIPS LSGYRTGLRSFGLVKQKKSPIR MPCVYTNPVCSIVSRMAQASSL
7116	37484	A	7170	1	1038	
7117	37485	A	7171	1	1098	

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7118	37486	A	7172	1	838	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTE TMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGSL PTDPLMYYYQAPCMKSNNAL IVILGTVTLDAVGIGLVMPV\CR ASCGISSIPTASPTMACC
7119	37487	B	7173	1	1212	
7120	37488	A	7174	1	738	
7121	37489	A	7175	1	654	
7122	37490	A	7176	1	448	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHK\AGNLSQQLH**IGQR AGRGGRLRIGRQGGFSFHQ
7123	37491	B	7177	1	753	
7124	37492	A	7178	1	345	
7125	37493	A	7179	1	516	
7126	37494	A	7180	1	1989	
7127	37495	B	7181	1	1191	
7128	37496	A	7182	1	669	
7129	37497	A	7183	1	574	
7130	37498	A	7184	1	934	
7131	37499	A	7185	1	1281	
7132	37500	A	7186	1	324	
7133	37501	A	7187	3	817	
7134	37502	A	7188	1	587	
7135	37503	B	7189	1	610	
7136	37504	A	7190	1	882	
7137	37505	A	7191	1	1077	
7138	37506	A	7192	1	418	
7139	37507	A	7193	1	840	
7140	37508	A	7194	1	337	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRN\VFGSGLRRPTAELKCA SQT
7141	37509	A	7195	1	1142	
7142	37510	A	7196	1	1080	
7143	37511	A	7197	1	1170	
7144	37512	B	7198	1	1296	
7145	37513	A	7199	1	1179	

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7146	37514	A	7200	1	507	
7147	37515	A	7201	1	411	
7148	37516	A	7202	1	793	
7149	37517	B	7203	366	1502	
7150	37518	A	7204	1	1107	
7151	37519	A	7205	1	2388	
7152	37520	B	7206	1	2260	
7153	37521	A	7207	1	1067	
7154	37522	B	7208	563	1467	
7155	37523	B	7209	1	1272	
7156	37524	A	7210	1	1722	
7157	37525	B	7211	1	1917	
7158	37526	A	7212	1	2679	
7159	37527	A	7213	1	1207	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPG FGDFA\HFGNHHQNRIFALLGQ TSVDRLQLSQGQAVKGNQLL PVSLVKRKTTLAPNTQTASPR LADSLMQLARQVSRLESGQAIR DAEKAGRLPHPDMEIRGRVEQ RVGYTIEQINHMRDVFGTRLRR AEDVFPPVIGVAAHKGGVYKT SVSVHLAQDLALKGLRVLLVE AARGLKKRGLAGTAQGPGE EAPKGKKGKTEPGHERKGNWT GKGPQIREGTSPNPPREHGEC APPPSAKRKQPKAQKRKANSN AHPRQPKPKKKRPKRQTNSTN TRSGKRQNKQPEEPK
7160	37528	A	7214	1	2757	
7161	37529	A	7215	1	2984	

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7162	37530	A	7216	1	2387	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPI GVAAHKAKGLTALSPQTDWNR KRNSKPLAQVQEEDSAWHPE CLQKTRQAWCDNLKTCHTSHG SVMAETA VINHKKRKNSPRIVQ SNDLTEAAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNPLTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSGIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQCINAGHEMT KAIAIAQFNDDSPARKITRRW RIGEAADLVGVSSQAIRDAEKA GRLPHPDMEIRGRVEQRVGYTI EQINHMRDVFGTRLRRAEDVFP PVIGVAAHKGGVYK\TLISVHL AQDLALKGLPGLLR\EGNDPQG \TTSMYHGWVPDLHIHAEDTLL PFYLGKDDVP\YAIKPTCWAG AWHFFLPCRALHRIETELMGKF DEGKLPTDPHMLRLAIETVAH DYDVIVIDSAPNLGIGTINVVCA ADVLIVPTPAELFDYTSALQFFD MLRDLLKNVDLKGFE PDVFIRD KLMERRNRRTGRTEKARIWEV
7163	37531	A	7217	1	917	

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7164	37532	A	7218	1	1862	MKLMETLNHCINAGHEMTKAV AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAY DLALKGLRVLLVEGNDPQGTA SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELWGK/FDEGR SFMPGPP/HHHPLGRSSQ*QVSN SLDRAAKGN*KPLCHCPCSGTT HATRLRIKEQRPYPYAHLLQA VVDPRRGGHMVL/NVVRVTG DVGKGQIRMRTVVEQAIDQRSS TGAWRNALSIWEPVCNEIFYRL IKPRWEIRWGKRAPVIPKHTLN TQPVEDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADAEN ISRKIITRCINTAKLPKSVVALFS HPGEAICPVRMFRMKLMETLN QCINAGHEMTKAI AIAQFNDDSP GSEENNPALENR
7165	37533	A	7219	1	2724	
7166	37534	A	7220	1	3252	FNDDSPARKITRRWRIGEAAD LVGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPFNDDSP EARKITRRWRIGEAADLVGVSS QAIRDAEKAGRSTATRILEIRGR VEQRVGYTIEQINHMRDVFGTR LRAEDVFPPVIGVAAHKGGV YKTSVSVHLAQDLALKGLRVL LVEGRSFPQTEACLLQYSSWDV SSEKPAALNKNKSEMRGDFAD FGTTIKQDFRLLGQT
7167	37535	A	7221	1	465	
7168	37536	A	7222	1	291	

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7169	37537	A	7223	1	1710	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVSHAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGFQF*PAGGW/WGSNPFFAK RYTRSKPYTGDNGYV\AGWV AGYNFMLGSEKFTLTNWEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRMLDFS PRLKKLADCPSPRPVFEALCICS MLDALLLLCPLDYHASC DNYS YALLDPQGFPLPHRRLWGPYID VDVPMHLHIQAWAQDALLSC LYSDLLYMSSFYPAGTLTRLM GVTSYNHKNLTLYCITLMSTI RFAYDGDEEIAMKYTDFLKGE LSMNIRPLHDRVIVKRKEVETK SAGGIVLTGSASAKSTRGEVLA VGNGRILENGEVKPLDVKIGDI VFFNDGYRGEI
7170	37538	A	7224	678	1588	RTQHKASLHGRASAFCPRLFA PQAPRLFDHRGFLTFASANFAA VAFCPRLFPPTGAAAVCPLPLF APRRFLPPPPRLFRCHGFFPPC LGFLTSAFFLPPRLFALRRRG FLPFAAAAAFFPTRLFAPPPTQL FAPSPWLFAAAAFCPPWLSAP TPPRLFPAAAAFCCRDFLPPSP PLFRHRDFLPPPRIFVPAAAAL RAGAADSAAGSTGVLGQDLWS RCVVGTGMEAPGSRGGGGGLR EDIPLPPEFSPGPALSSCR*GNRR PEGEMTCQEPLLS/CSWIP*VKE FETNPDNIVRPH

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7171	37539	A	7225	1	1627	MTKQLELPQSPGEVPGSDYPLL IACAYIGFLTWGGGFGSGMPLL AATPGNPVEHIAGLIPVGDTLFS GFNIFITVALIVVMPFITRMMMP KPSDVVSIDPKLLMEEADFQKQ LPKDAPPSEERLEESRILTLIIGAL GIAYLAMYPFSEHGFNITINTVNL MFMIAGLLHKTTPMAYMRAIS AAARSTAGILVQFPFYAGIQLM MEHSVTGIEAAMLDDLGGHGLG VNVASLLGDGQQRSEVEMLG LFFVGNRKATPLPYQSQPDDSC DWYRLRHEEAMTPDAVVRLEAE AAEYKYGFNDFKLKGGVLAGE EEAESIVALAQRFPQARITLDPN GA\WSLNEAIKIGKYLKGSLEY AEDPCGAEQGFSGREVMAEFR RATGLPTATNMIATNWREMGH AVIAQ\SVDIPLADPHFTWMTQG SVRVAQMCHEFGTLWGSHSNN HFDISLAMFTHVGAAAPGNPTA IDTHWIWQEGDCRLTQNPLEIK KGKIAVPDAPGLGVELDWEQV QKAHEAYKRLPGGARNDAGP MQYLIPGWTDFDKRPVFGRH
7172	37540	A	7226	3	655	
7173	37541	A	7227	1	633	
7174	37542	A	7228	1	630	
7175	37543	A	7229	362	1491	PTLSVIHESMRFFIRHQPENLTL VVLNRNLPQLALPICVFVINCW KLAVSNWHLPISTGCAVTKDG RWSPEFTITGQA/WDLPVVGYR NGVAQPLRLWQATHAHPFDLT KFNDGDFLRAEQQGINAEKLT VLYPNDNHTAGKKRLMQQYF QCACSVADILRRHLAGRKLH ELADYEVIQLNDTHPTIAPELL RVLIDEHQMSWDDAWAITSKT FAYTNHTLMPEALERWDVKLV KGPLPRHMQIINEINTRFKTLDL QDAEHRPLKMRGCLLCQCHTL FQGKHRFFTGAGGNRQNNVIE HLVAASRYRFTTASRRPLFTAG FTLLTAFLFHSNFAEGVNSLMF MKNLTISGGFLLAITGPGAYSI DRLLNKKW
7176	37544	A	7230	1	660	

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7177	37545	A	7231	545	1322	KHAEHLGQATHAHPFILTKFNP GYFL\RRQTTRGINAEK\LAKIFF \PKANHFAGKKLRMLMQQYFQC ACSVADILR\RHHLAGRKLHEL ADYEVIQLND\THPTIAIPELLRV LIDEHQMSWDDAWAITSKTFA YTNHTLMPEALERWDVKLVKG LLPRHMQIINEINTRFKTLVEKT WPGDEKVWAKLAVVHDKQVH MANLCVVGGFAVNGVAALHS DLVVKDLFPEYHQLWPNKFHN VTNGITPRRW\IKQCNPALAALL
7178	37546	A	7232	641	874	KYPTPGRDLRMFITGLSERL*EI TSLKRSITGDKYSRPLTANSV TSVTHFSFGRVALKSLSSVRAV SLDLNRCFK
7179	37547	A	7233	1	693	
7180	37548	A	7234	980	1305	TWLRICSIHRSKSLILTSI/HVLH SDQGWQYRMRRYQNILKEHGI KQSMSRKGNCLDNAVVECFFG TLKSECFYLDEFSNISELKDAVT EYIEYYNSRRISLKLKGSNSN
7181	37549	A	7235	1	3219	
7182	37550	C	7236	1	7521	
7183	37551	A	7237	1351	2117	CDRILCSACCAEPQPVSHLHRL RRSFERQPDGNGSQNPASRDR/ DVVDVTVIAWIEHRGGHEAPS GPGEDGMDAPAIAAGTFSPREA STLPVQVS*VCRLNCCSRDVPK ATRVPL/EKLAGPLRHPLFMLF QTCLHLSLFTHHFADDSRRLQIF SVGFVAGLKQQYRRDLLQGDV NPRMATAVGNDQVWFQSGNG FQARLRARSDGLPRFQVRTHFG QDAFCIVIVGNTDRDDVHGGQ RIGEREFQHHNPLWRFEC
7184	37552	A	7238	690	868	

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7185	37553	A	7239	2607	3692	TWLRICSIRHKSILTSI/HVLH SDQGWQYRMRRYQNILKEHGI KQMSRKGNCLDNAVVECFEG TLKSECFYLDEFSNISELKDAVT EYIEYYNSRRISLKLKGLTPIEY RNQTYMPRVNCPLFDTLRIPDI GGVVRARAIAKLLNDTDMAIID KRRPRANVSQVMHIIGDVAGR DCVLVDDMIDTGGTLCKAAEA LKERGAKRVFAYATHPIFSGNA ANNLRNSVIDEVVVCDTIPLSD EIKSLPNVRTLTSEKYTAARFT RDLIAGITVGHIAIPLAMALAIGS GVAPQYGLYTAAGIVIALTG GSRFSVSGPTAAAFVVILYPVSQ QFGLAGLLVATLLGDLFDSDG
7186	37554	A	7240	1326	3930	NVLRGISAFFVG*AKAPRNGT Q
7187	37555	A	7241	3	195	RVDDFVGGAGAPASPG*QCG QLQKLIGISIGSLRGLGTCASV NDLTEQEIRTLEHCPNSFF
7188	37556	B	7242	75	402	
7189	37557	A	7243	1	309	
7190	37558	A	7244	3	187	
7191	37559	A	7245	383	1778	
7192	37560	A	7246	2	447	IREKLIRLQHENKMLKLNQEGS DNEKIALQLSLDDANLRKNEL ETE/Q*VLVPINFPLTTAFVSH RFRLVNQRLLEVQSQVEELQKS LQDQGSKAEDSVLLKKKLEEH LEKLHEANNELQKKRAHEDLE PRFNSSSLKIEELQEALR
7193	37561	B	7247	80	1042	
7194	37562	A	7248	1	192	
7195	37563	A	7249	3	62	
7196	37564	B	7250	219	230	
7197	37565	A	7251	246	594	
7198	37566	A	7252	1	316	
7199	37567	A	7253	1	1059	
7200	37568	A	7254	1	516	EDALEQEKKELQIQVEHYEFQT RQLELKAKNYADQISRLEERES EMKKEYNALHQRHTEMIQTYV EHIERSKMQVGGNSQTESSLP GRSRKERPTSLNVFPLADGT/CT CTDRGQARACGGPLAPE*PRPA AVQLQLPGFVAVPWSERLLPV AGVPRSLGREPRLQAALHGS
7201	37569	A	7255	1	1176	
7202	37570	A	7256	1	749	
7203	37571	A	7257	1	691	

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7204	37572	A	7258	2	810	VMMTGYNNGRCPRNSLYSDCII EEKTVVLQKKDNEGFVLRG AKADTPIEEFTPTPAFPALQYLA ESVDEGGVAWQAGLRTGDFLI EVNNENVVKVGHRQVVNMIR QGGNH\FLKVVTVTRNLDPDD TARKKAPPPPKRAPTTALTLS KSMTSELEELVDKASVRKKKD KP EEIVPASKPSRAAENMAVEP RVATIKQRPSSRCFPAGSDMNS VYERQGIAMTPTVPGSPKAPF LGIPRGTMRRQKSIGKKCGTTP QKLPLGFQTQP
7205	37573	A	7259	1	1416	
7206	37574	A	7260	2	1142	
7207	37575	A	7261	1	576	
7208	37576	A	7262	21	289	
7209	37577	A	7263	2	372	
7210	37578	A	7264	170	655	VRRRILGALFTWICSVTRESTSK PLSSALLSAKLLHRARSRTGLS GRNPKTISQDLQFAAIGSPLTES LNLHSRQALRDCCWTHITPPNP *ICTHARR/WRDCCWTHITPPNP DTVWRFPLSSPVSAAPKQERAS SEP CSHWCRCSLSWLSSIPT GCTPVCSSICLLMATFPMSLIK IVR
7211	37579	A	7265	1	1725	
7212	37580	A	7266	307	686	PRRTPMKCKIKEVPIFVPLRT TRENCLRPIKGYAIYEKAPRSIL KDVHLTRNQCVPIPDYK WWS WQVCRRPKQWGWTOGPVAPK RSAEFFAAHA*KRRRVMLNLR GLDVDSLVIHQVNKAP
7213	37581	A	7267	1	276	
7214	37582	A	7268	1	726	
7215	37583	A	7269	3	231	
7216	37584	A	7270	1	217	
7217	37585	A	7271	3	283	KRKTEGDAKGDKAKVKDESQR RSARLSAKPAPPKPEPKPKKAP AKKGEKVPKGGKRKADAGKE REGYWR SQVKCIHFL*LYFW*L YSLKYYFI
7218	37586	A	7272	1	1188	
7219	37587	A	7273	5	365	
7220	37588	A	7274	1	453	

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7221	37589	A	7275	1	441	RQPAHPGTSSAAAAPRKRSAAA HAGVAVAASARLPPCAGCGLR AAPLLASSARLRALRRP\GGL WAAGCAPAAGQLCTAAGSAAP GALQRCGGRHGITRPWCAEIAS AG*GSGGSRWGCWPCCLLRT CTSHPLSSPLPFTHGSLQASFSL TRDCVSSTKTLWVWLEVQR
7222	37590	A	7276	2	1957	
7223	37591	A	7277	1	678	
7224	37592	A	7278	1	720	
7225	37593	A	7279	190	2947	QALQRGLLSR/DRAPCSSKLSW RS/SPRRRAGTGPVQEEVALKP VLLRHPVQPVIRVKLPRICLLEE AGQLRGVHRLESVEEYYEADG AEWGPPDTAMLESLEPMAGKH SLPQLLDSSASQPGAIQIIYSIL YQIHLYLKHLLSSYWGASQWKH TRHTHYFESLW*EHLPS*KYQK REKWADLTRSLENP\GQQPRDS WEPSPGFWALPQAGDSCQTSQSP RKPTGPPKPSPPPEEGRLLR/CPT MPVMRKSLE
7226	37594	A	7280	3	439	
7227	37595	A	7281	1	273	
7228	37596	A	7282	2	1664	
7229	37597	A	7283	1	7511	
7230	37598	A	7284	1	5046	
7231	37599	A	7285	42	8716	
7232	37600	A	7286	2	201	
7233	37601	A	7287	2	797	CS/GSPPTCRQAQTSLEVALYM FLQNPDEAVLVAMSCFCHLCE EADTQCGVDEVSVHNLLPNSN TFMEFACQQCDVNSPPVGPVSE HKGSMISVMSSEGNADTPVSK YMDQLLSLMVCNLEKVGLQIP TNDKDLVLLTDTNTQFVEQTL DIMKNLLDNHTEGSPEHLEQAS IETMMLNLVRNKMVEYLTDW VMGTSNQAADDDVKCLTSRI/D HPGGTLL*GQPRPELPAGLPRQ PASPGPRHPGASCGWPRAPPDS APGGPGRER
7234	37602	A	7288	56	8669	
7235	37603	B	7289	278	2333	
7236	37604	A	7290	1	423	

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7237	37605	A	7291	2	1688	PLYFHSPPAWLCSPSPPSARLYL ELRKLPATLPWSSVTDGTGYSYSA GRRRERGEGEGRGRVRVADH RSALPRTGPQGSEELANMQGL VERLERAVSRLESLSAESHPP GNCGEVNGVIA\GVAPSRGKPL HKLMDSMVAEF\LKNSRILSGD VETLAEIVHSAFQAQRAFLMA SQYQQPHENDVAALLKPISEKI KEIQTFQRE/RTRGSNMFNHLA VSESIPALGWIAVSPKPGPYVK EMNDAATFYTNRVLKDYKHS LRHVDWVKSYLNIWSELQAYI KEHHTTGLTWSKTGPVASTVS AFSVLSSGPGPLPPPPPLPPGPP PLFENEGKKEESSPSRSALFAQL NQGEAITKGLRHVTDDQKTYK NPSLRAQGGQTQSPTKSHTPSP TSPKSYPSQKHAPVLELEGKKW RVEYQEDRNDLVISETELKQVA YIFKCEKSTIQIKGKVNSIIIDNC KKLGLVFDNVVGIVEVINSQDI QIQVMGRVPTISINKTEGCHIYL SEDALDCEIVSAKSSEMNILIPQ DGDYREFPIPEQFKTAWDGSKL
7238	37606	B	7292	44	355	
7239	37607	A	7293	1	3623	SEKEKEELERLQKEEEERKKRL QLYVFMRCIAYPFNAKQPTD MARRQQKISKQQLQTVKDRFQ AFLNGETQIMADEAFMNAVQS YYEVFLKSDRVARMVQSGGCS ANDSREVFKKHIEKRVRSLEID GLSKETVLSSWMAKFDAYRG EEDPRKQQARMTASAASELILS KEQLYEMFQNILGIKKFEHQLL YNACQLDNPDEQAAQIRRELD GRLQMADQIARERKFPKFVSKE MENMYIEELKSSVNLLMA
7240	37608	B	7294	1	1555	
7241	37609	A	7295	1	1056	
7242	37610	B	7296	54	2173	
7243	37611	A	7297	1	984	
7244	37612	B	7298	95	1350	

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7245	37613	A	7299	1	2569	MDGAKAFFSAVAAGFVIILTCQ LQWQWQHGGVHAHQLWQLA SGYRDACFCVSTYSSGPSEFPGP TLGTLNELAIDLEERKHRRKAK VWKGEGGGLRSPRQSLLAFRA VLASRGTRSCHVSPYLGVS GAL SSPNPHPSTTGAGPIPPVQRWGL PQINQKNREIAIPLTLGMSTHLR RGCKNMSRFSPSLHCCTTPISTN FTDPGSHCKGAHGDIQLIQL KGALPMSINRSYFNAHPLLQISE AVTFKDVAVVFTEELGLLDP QRKLYRDVMLENFRNLLSVGN QPFHQDTFHFLGKEKFWKMKT TSQREGNSGGKIQIEMETVPEA GPHEEWSCQQIWEQIASDLTRS QNSIRNSSQFFKEGDVPCQIEAR LSISHVQQKPYRCNECKQSFS VSVFDLHQSHSSEKSHTCGEC GKSFCYSPALHIHQRVHMG CYKCDVCGKEFNQSSHLQTHQ RVHTGEKPFKCGQCGKGFHSRS ALNVHCKLHTGEKPYNCEECG KAFIHDSQLQEHQRIHTGEKPF KCDICGKSFRVRSRLNRHSMVH TGEKAFRCDTGKGNFRQRSAL NSHSMVHIEKPYKCEQCCKGF ICRRDFCKHQMVTGEKPYNC KECGKTFRWSSCLLNHQVHS GQKSFKEECGKGFYTNSRRSS HQRSHNGEKPYNCEECGKDYK RRLDLEFHQRVHTGERPYNCK
7246	37614	A	7300	2	326	
7247	37615	A	7301	166	443	

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7248	37616	A	7302	1	2692	MDPGTLQSASQGPTAINPCDYV LKRRNIQTTSWQRLTPIIKWHVYI LMIGPGEKEAGRNLGIFGKWTP FPKIPAKRLRESNCPVDAQEIW LPQAFREYLGRRGNFGPGRRTC EFWEVESICSVESWELWLRQA DSGDSGKCSPDACGHIIDTSGLR AGHCYLTRLWHVSGRIPPSFKL HHPGVCKFPKVGGKMTTFKEA VTFKDVAVVFTTEELGLLDPAQ RKLYRDVMLENFRNLLSVGHQ PFHQDTCHFLRE\EKFWMMGT ATQREGNSGGKIQTETMETVPE AGTHEEFSCQIWEQIASDLTR SQDTTISNSQLFEQDDNPSQIKA RLSIHVKTETSEGRTCKKSFS VSVLDLHQQLSREKSHTCDEC GKSFCYSSALRIHQRVHMGEL YNCDVCGKEFNQSSHQIHR HTGEKPFKCEQCGKGFSSRSG YVHRKLHTGVKPHICEKCGKA FIHDSQLQEHQRIHTGEKPFK DICCKSFRSRANLNRHSMVHM REKPFRCDCGKSFGKLSALNS HRMVHTGEKRYKCEECGKRFI YRQDLYKHQIDHTGEKPYNCK ECGKSFRWASGLSRHVRVHSG ETTFKCEECGKGFYNSQRYSH QRAHSGEKPYRCEECGKGK RLDLDFHQRVHRGEKPYNCKE CGKSFGWASCLLNHQRIHSGE KPFKCEECGKRFTQNSQLYTHRR
7249	37617	A	7303	1	585	KRTAISP KDAFETRQDLNEEEA AQVHG VKDPAP/ASTQSVLADG TDSAGN*ARQEPHKAAL*PIQN YQANLVNTFPYSNNSGGRG/RL MKT V/TQGSQQPSLADPASHLP VGDHLTYSNETEPVRALLPDEK KEVKPPALSMSNLHEATMPVL LDHLRETRADKKRLRKALREFE EQFFKQ TGRSPQKEDRIPMADE YY
7250	37618	A	7304	1	366	

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7251	37619	A	7305	1	1265	RYPGIPGSTISSLVEEHAPPSW EPQHQNVEATVLVDSVLRPSM GNFKSRKPKSIFKAESGRSHGES QETEHVVSSQSECQVRAGTPAH ESPQNNAFKCQET\VRL\QPRID QRTATSPKDAFETR\QDLNEEE AAQVHGVKDPAPASTQSVLA\D GTDSADPSPVHKDQNEADSA PEDLHSVGTSLRL\YHITDGDN PLLSPRLFPLSGQSQRFNLDPE APSPSTQQFMMPRSSSRSCSG DGKEPQTITQLTKHIQSLKRKIR KFEEKFEQEKYRPSHGDKTSN PEVLKWMNDLAKGRKQLKEL KLKLSEEQGSAPKGPPRNLLCE QPTVPRENGKPEAAGPEPSSSG EETPDAALTCLKERREQLPPQE DSKVTKQDKNLIKPLYDRYRII KQILSTPSLIPTIVSQDTCMLLLC
7252	37620	A	7306	797	1390	PRMGARPRAPAAQPPAAAQR PPARPATPTACGSSAHRAPSPA RSRRSPCTPRAAAPGPKAAR QWAGTATRSSRPQRSARRSPRD SSRCWAISSRSKRAATACTPGA KRRVATKARGALWSKPKSKA MRLWPWCLSGRLGS*KAQEVA QDPGSDEGRGRLVESGLQDEG WVPQGGEGGVAGQDASHRGSF RGALK
7253	37621	A	7307	605	697	
7254	37622	A	7308	1	1263	
7255	37623	A	7309	257	1190	
7256	37624	A	7310	394	485	
7257	37625	A	7311	21	674	
7258	37626	A	7312	277	396	GLLPGWKI*CSRVFVTSIHVE VAELEANLPCTCKVHFPDPNKL HCFQLTVTPDEGYQGGKFQF ETEVPDAYNMVPPKVKCLTKI WHPNITET
7259	37627	C	7313	74	316	
7260	37628	C	7314	211	390	
7261	37629	A	7315	1	2601	
7262	37630	A	7316	1	1365	
7263	37631	A	7317	358	760	SIPLLFRKSSLSRK*CSAASIFSG SSKFKRSVNKEFNPQTTSFNVL VGAQPVPSIECSLNKLRHISPV VIVGVPSDLVQAFHFRHHVV RIRELQFQTEIFHPGSNPHLGLL LAENNEACLDQENALYMYKV
7264	37632	A	7318	1	1728	
7265	37633	A	7319	1	558	

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7266	37634	A	7320	2	1884	PAGAGPGQEAGAGPGPGAVAY ATGAEEGEMKPVAAGAAVPPG EGISAAPTVEPSSGEAEGGEAN LVDVSGGLETESSNG\KDTLEG AGDTSEVMDTQAGSVDEENGR QLGEVELQCGICTKWFTADTFG IDTSSCLPFMTNYSFHCNVCHH SGNTYFLRKQANLKEMCLSAL ANLTWQFRTQEEHPKTMFSKD KDII PFIDKYWECMTTRHRPGK TTWPNNIVKTMSKERDVFLVK EHPDPGSKDPEEDYPKFGLLDQ DLSNIGPAYDNQKQSSAVSTSG NLNGGIAAGSSGKGRGAKRKQ QDGGTTGTTKKARSDPLFSAQR LPPHGYPLEHPFNKDGYYILA EPDPQAPDPEKLEIDCWAGKPIS GDLYRACLYERVLLALHDRAP QLKISDDRLLTVVGEKGYSMVR ASHGVRKGAWYFEITVDEMP DTAARLGWSQPLGNLQAPLGY DKFSYSWRSKKGTFKHQSIGKH YSSGYQGQDVLGFYINLPEDTE TAKSLPDTYKDKALIKFKSYLY FEEKDFVDKAEKSLKQTPHSEII FYKNGVNQGVAYKDIFEGVYF PAISLYKSCTVSINFGPCFKYPP KDLTYRPMSDMGWGAVVEHT LADVLYHVETEVDGRRSPWE
7267	37635	A	7321	1	267	
7268	37636	A	7322	60	888	RGAALARTRLSVRPVGPAGTRR SHALGPRPGARSSFRLRCELRR CMCGNNMSTPLPAIVPAARKA TAAVIFLHGLGDTGHGWAEAF AGIRSSHICYICPHAPVRPVTLN MNVAMPWF\DIIGLSPDSQED ESGIKQAAENIKALIDQEVKNGI PSNRILG\GFSQGGALS\YTALT TQQKLAGVTALSCWLPLRASFP QGPIGGANRDISILQCHGDCDPL VPLMFGSLTVEKLKTLVN PAN VTFKTYEGMMHSSCQQEMMD VKQFIDKLLPPID
7269	37637	A	7323	1	1182	

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7270	37638	A	7324	1	2469	MVDRARPTVLVTEVPLKSKHT AQMGLVLTANESQPLVHETAL KNKKPQSWFPNPCVSYNRKPG LQD*GRAERPELGEQATEAALL KAPAESVRQEHRSTNT/PQTRSC CPQYFPRAGCLPSRGHDVEPQH EAGDGPCRGIRNG*KLLSSFFG QQVRT**R/CSELTpkQEFFKGS ESSNRTSGGLFGVVPGAETGD VCVYTFKELEGQTSDEEGSRLE NDFLEITDEDKKKSTKDRYDKY KEVGEHPPLSSSPVEHEGV LKG QKSYRCDECGKAFNRSSHLIGH QRIHTGEKPYECNECGKTFRQT SQLIVHLRTHTGEKPYECSECG KAYRHSSHLIQHQR LHNGEKPY KCNECAKAFtQSSRLTDHQRt HTGEKPYECNECGEAFIRSKSL ARHQVLHTGKKPYKCNECGRA FCSNRNLIDHQRIHTGEKPYECs ECGKAfSRSSGLISHHRVHTGE KPYSCIECGKAFNQNSQLIEHQ RMHRGKKVYKCCECGKAFGLS KCLIRHQR LHTGEKPYKCNECG KSFNQNSHLI HQRIHTGEKPYE CNECGKVFSSSLMVHQ RTH TGEKPYKCND CGKAFSDSSQLI VHQRVHTGEKPYECSECGKAF SQRSTFNHHQRTH TGEKSSGLA CQEGNKEISKGPQKPPGYRLCP LQAVGGGEFGPTRVHISFSLSD LKQIKVFFPGGPLMLEKQKKKS
7271	37639	A	7325	1	1596	
7272	37640	A	7326	2	3394	MAHAGGGSGGSGAGGPAGRG LSGARWGRSGSAGHEKLPVHV EDALTYLDQVKIRFGSDPATYN GFLEIMKEFKSQSIDTPGVIRRV SQLFHEHPDLIVGFNAFLPLGY RIDIPKNGKLN IQSPLTSQENSH NHGDGAEDFKQQVPYKEDKPQ VPLESDSVEFNNAISYVNKIKTR FLDHPEIYRSFLEILHTYQKEQL NTRGRPFGRMSEEEVFTEVANL FRGQEDLLSEFGQFLPEAKRSLF TGNGPCEMHSVQ
7273	37641	A	7327	1	738	
7274	37642	A	7328	1	399	
7275	37643	A	7329	3	223	
7276	37644	A	7330	1	1040	
7277	37645	A	7331	1	465	
7278	37646	A	7332	1	288	

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7279	37647	A	7333	109	4770	
7280	37648	A	7334	109	4687	
7281	37649	A	7335	109	4860	
7282	37650	A	7336	1	336	
7283	37651	A	7337	1	441	
7284	37652	A	7338	305	446	
7285	37653	A	7339	2	461	
7286	37654	A	7340	59	620	FQKIGL**/FIDLKDGLFTIPLAE QDCEWFAFTIPVVNNLQPAKRF HCFTDGSNNGKASYSGSKNKV FQMSYTSQAELVAVIELIEN AQLRFHTDEQLMTLFTQLQTA VRSRMHPFYITHIRHTPLPGPL TEGNQMADRLVANAISARHF QQHLL/THSHPPGDRSRSCRW RKKLEESGTSSHE
7287	37655	A	7341	1	1410	
7288	37656	A	7342	1	1740	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNK AVQVQTGVTDSYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK FÆGLKEPLQVERQSSCQGLGY/ PFLMAAIVKPPEPIPLKWLTDKP IWTEQWPLSKEKLEALEDLITQ QLKKGHIAPTFSPWNSPVFIKK KSAEQDCEWFVFTILAVNNLQL KPAKRFHWKVLPGQPNQQPIWI PSRYLKPYHKPDAKEEIPESQ GFPVAAMSRLTLRRTPTVTSNT HRTQPPTWGQIEKLPQMAEENL RKAGQPVTISNWILPRITKFKPI EGAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESRGPPVAAMSRLTLR RMPTVMSNTHRTQPPTWGQIK KLSQMAEENLRKAGQPVTMNN LMIAVITTA FNKG
7289	37657	A	7343	1	1239	

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7290	37658	A	7344	1	777	MPQNSLEECALGLGKSLQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGGKVFQTPYTAAQKVE LVAVIEVLTAFDMPVSMISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVR\CFAVMGIP ASTTT/DNAPGYTSQALATFFS MWNIRITGIPYNSQGGQAI VER MNLKQQLKQTEGDREYGT PQMQLNLALLTLNFLSLPKGQ MLSAAEQHLQKPAVKTEAEQLI
7291	37659	A	7345	1	1307	
7292	37660	A	7346	1	2040	
7293	37661	A	7347	1	1898	MAGAPPPAWLPHCSSISDCCAR NERGSVGVAPSKPARSAVDL CCTKAVSLLPGEPPQKVPARVC GPLPAGTVGLLLGRSSLSLKEV QIHTGVISDYKVEIQIVVSTSV PWKAEPGERIAQLLVVPYVGT GKSEIKQTEFGSTNKQGKAAY WVNQITDKHLTCEITIQGKKFK GLVDTGADVSIISLQHWPSMW P IQSTQFNIVGVDGSSNGKASYF GSKCKVFQMPYTSQKVELVA IIEVLTTFDMPINVISDSSYV VHS TQLIENAQLQFHTDEQLMTLFT QLQTAVRSRMHPFYITHIRAR\H TPLPGPLTEGNQMADCLVATA VSNARHFHNLTHVNASGLKCR YSNTWKAAKAIQRRPTCQMV HSSSFTGGVNPQGLEPNSLWQ MDVTHVPSFGRLAYVHVCVDT FSHFVWATCQSGESSACVKHH LLQGFVVMGIPASIKTDNVP GY TSQALATFFSMLNIRITDIPYN SQDVEADANADVGVDVDADA DVDAEEEVFTDADADA EVDVD EDADAERLRCNADESDLDLD VDAEMDADVDTNLDVDA AVD VDVDADADVDADTDVDVDTG LNLEADLDLDVDADVDTDADV DRDADVEVAVDADATVNADV DYVDVDTDS
7294	37662	A	7348	2	565	
7295	37663	A	7349	1	996	
7296	37664	A	7350	18	260	
7297	37665	A	7351	1	594	
7298	37666	C	7352	232	603	
7299	37667	A	7353	1	1236	
7300	37668	A	7354	568	1370	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7301	37669	A	7355	1	1800	
7302	37670	A	7356	1	498	
7303	37671	A	7357	1	3400	MDCSEKWRDPLDAVCVLPATE EPVVQGSALYLVAAHDDYCV WYSLQRTSPEKNERVRQMRPV CDCQAHLWNRPRFGEINDQD RTDRYVQALRTEIPLTLKGAKL QREEKEGDMPCRANILVTELF TELIGEGALPSYEHHRHLVET SLGEQVIVPPVDVESC PGAPSV CDIQLNQVSPADFTVLS DVLPM FSIDFSKQVSSSAACHSRFEPL TSGRAQVVLWWDIEMDPEGK IKCTMAPFWAHS DPEEMQ
7304	37672	A	7358	1	687	
7305	37673	A	7359	1	660	
7306	37674	A	7360	112	474	
7307	37675	A	7361	352	441	
7308	37676	B	7362	1	831	
7309	37677	A	7363	460	612	
7310	37678	A	7364	251	496	LFVSI/WQVFH*GRRGFLVRN DCVQIWCEMISHSGFDLHFS DG Q*/WMSISSC/DFLAA*MSSF EK CLFMSFAHFLMGLFVFFL
7311	37679	B	7365	1	729	
7312	37680	A	7366	1	774	
7313	37681	B	7367	1	516	
7314	37682	A	7368	10	504	
7315	37683	C	7369	520	1656	
7316	37684	B	7370	1	1206	
7317	37685	A	7371	677	1126	AVTLTTKVCSFTPEASETTNPPG GTNNSRR TALRAVALTAKVRS FTPRGSAASFLKSVRPRTHQFRT Q*HVHQIEFSPGGLWESCPRAS SSTGDPGRPPERRGAAARKTVG VQGVGYSLPRKLCPLFSRTTYP HTSLRKDCLES DTTAE
7318	37686	A	7372	2	394	HLFIYLLVLLWCPGWPQTAG LKGSSCLSLSNWNYRPP*AL LLGTQKLPRVWNFIMVRRIQDG VKPSVSIAEREMKSRKSAASLL SQRDHEPTRRKKLRTHPNIRRN KLQTRHLKSCNTHCEGPWRHS
7319	37687	A	7373	1	204	
7320	37688	A	7374	1	879	
7321	37689	A	7375	139	4488	
7322	37690	A	7376	1	933	
7323	37691	A	7377	335	582	VLQLLRQHVWSCSFLLVGSWS HWLQERSCRSSQ*VLQLIKAV WTQRTQEPSWLHLVDPAPGLQ VELPASPTRYAHTPQPLGG

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7324	37692	B	7378	1	3101	
7325	37693	A	7379	365	625	VAKIFSHVVGCLFTLMVVSFAV QKLFSLIRSHLSILAFVAIAFGVL DMKSLPTPMS*MVMPRFSSRVF MVLGLKFKSLIHLELIFV
7326	37694	A	7380	994	1167	NKGGHKQMEEHSMMDRKNQ YRENGHTAQGNL*IQCHPHQAT NDFLHRIKGKNKLASN
7327	37695	C	7381	143	3529	
7328	37696	B	7382	54	1158	
7329	37697	A	7383	1662	1919	LLNVFALAFVLVLLIEMLCQFW IFPAFSCRHLVL*ISLYTLL*MRP RDSGMWCLCSRWFQRTSLFLA SFRYPSSSHSGAGCSVSM
7330	37698	A	7384	63	1650	SPGHI*SSV*REIYSTKCPQEKA GKI*NSHPNITIKRTGEARANTF KS*QKARNN*DQSRTEGDRDT KNPSKNQ/CNPGAGFLKRSTKLI DR*QD**RRK*RRIK*T**KMIK GI/VTTDPTEIQTITREFYKHFYA NRLKNLEEMDEFLETYTLPRLN QEEVESLNRPTGSEIEAIINSLP TKKSPGPDGFTAIEIYQRTNDKN HMIISIDEEKAFDKIQQPFMLEM LNKLGIYGYMYIKIIRTIYDKSTA NIILNVQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAIRQEKEI KGIRLRKEVFKMFLFADDMIVY LENPIISAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIATKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTNK WKNIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTFFTELEKTTL KFIWNQKRALNAKTILSQKNK AGGIMLPDFKLPYKATWYWNQ NTEIDQWNKTEASEITPHIYNHL VFDNPDKNKK
7331	37699	A	7385	392	493	
7332	37700	A	7386	1	1223	
7333	37701	A	7387	386	553	KMIKGISPLIPQRYKLPSSENTINT STQIN*KI*KKWIHSSHTPSQD* TRKKLNL
7334	37702	B	7388	285	1581	
7335	37703	A	7389	1	1473	
7336	37704	A	7390	755	1042	SSYATKKEPALPSQSEAKKTKL ETSCYLTSNYTTRLQ*PKQHGT GTKTEI*ANGTEQSPQK*YHTA TTIWSLTNLTTRNGERIPYLIN GVGKTG
7337	37705	C	7391	1	2334	

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7338	37706	A	7392	1	1539	
7339	37707	B	7393	1	2361	
7340	37708	A	7394	5071	5535	GTAFLWRRRGALRFRVSSFSVL FFPHLCGFIYFWSLMMVMYRC VFGVDVLSVC*FSF*QTGPSAA GLLEYPAY*GVSVP LLGGASQL GCSGVRGQGPT*GGS LPVLRSP AACWENHCSLQSCQTGTFKSA EVTAVFLFVCALPPEVEPT EAG
7341	37709	A	7395	1	459	
7342	37710	A	7396	3	1063	
7343	37711	A	7397	39	895	
7344	37712	A	7398	2	277	
7345	37713	A	7399	34	845	
7346	37714	A	7400	1	3399	
7347	37715	A	7401	1	3126	
7348	37716	A	7402	1	387	
7349	37717	A	7403	1	3578	RDLVVGCGGFVKSDVEINYS LI EIKLYTKHGTLKYQTD CAPNN GYFMIPLYDKGDFILKIEPPLGW SFEPTTVELHVDGVSDICTKGG DINFVFTGFSVNGKVLSKGQPL GPAGVQVSLRNTGT EAKIQSTV TQPGGKFAFFKVLPGDY EILAT HPTWALKEASTTVSVTNSNAN AASPLIVAGYNVSGSVRSDGEP MKGVKFLLFSSLVT KEDVLGC NVSPVPGFQPQDESLVYLCYTV SREDGSFSFYSLPSG
7350	37718	A	7404	34	460	
7351	37719	A	7405	105	245	VSSEKVS LGVPCPAASAAASGD ASR*MATGRGGGGGGVAALPE SAP
7352	37720	A	7406	1	1289	
7353	37721	A	7407	462	5250	
7354	37722	A	7408	714	887	
7355	37723	A	7409	1	109	PLRQLLCVKRGFC*HH*HEGCQ SRLLLRCLLCSTAI
7356	37724	A	7410	1	1845	
7357	37725	A	7411	192	1507	
7358	37726	A	7412	2	688	
7359	37727	A	7413	1	518	
7360	37728	A	7414	1	276	

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7361	37729	A	7415	984	3112	MWQETFFRMENLQLIILILGSP SQLHFPVIRNNQGWTLYHQWP HFLNRFSSRLSNSSLLNQLKFTC ANCKKPLQKGQTAYQRKGSAAH LFCSTTCLSSFSHKPAPKKLCV MCKKDITTMKGTI/VLAQVDSS ESFQEFCS\TSCLISL/YEEQQNP TKG\ALNKSRTCICGKLTEIRHE VSFKNMTHKLCSDHCFNRYRM ANGLIMNCCEQCGEYLPKGA GNNVLVIDGQQKRFFCCQSCVSE YKQVGSHPSFLKEVRDHMQDS FLMQPEKYGKLTTCTGCRTQC RFFDMTQCIGPNGYMEPYCSTA CMNSHKTKYAKSQSLGIICHFC KRNSLPQYQATMPDGKLYNFC NSSCAVAKFQALSMQSSPNGQFV APSDIQLKCNYCKNSFCCKPEIL EWENKVHQFCSKTCSDDYKKL HCIVTYCEYCQEEKTLHETVNF SGVKRPFCEGCKLLYKQDFAR RLGLRCVTCNYCSQLCKGGAT KELDGVVRDFCSEDCKKFQD WYYKAARCDCKSQGTALKERV QWRGEMKHFCQDQHCLLRFYCQ QNEPNMTTQKGPENLHYDQGC QTSRTKMTGSAPPPSPTPNKEM KNKAVLCKPLTMTKATYCKPH MQTKSCQTDDTWRTEYVPVPI VPVYIPVPMHMYSQNIPVPTTV PVPVVPVFLPAPLDSSEKIPAAI EELKSKVSSDALDTELLTMTD
7362	37730	A	7416	1	1071	
7363	37731	A	7417	88	2118	
7364	37732	A	7418	2	2930	
7365	37733	A	7419	1	1677	
7366	37734	A	7420	172	13329	
7367	37735	A	7421	2	946	
7368	37736	A	7422	255	933	WIEAAPQAQEVQGDGLWLPCG AAGAGGLQSARSYGTVGEASV AEHPW/CAPGGCMAGCGSLAA AASPGLVPGHLP/QPTAAPSHPH RASLRVALLSGQWGLTCGQLL ASAPLLQSWAWDTRLLMCRRRL SCSSEEGERIAQLLLPYLKLGS STVKRTGGFGNTNPAGKAVYW VNQVSDKRPICTVAIQGKDFEG LVDTEADVSIHAINQWPQHWP QKASIGIVGVGAA
7369	37737	A	7423	718	2385	
7370	37738	A	7424	1	180	

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7371	37739	A	7425	1	1713	
7372	37740	A	7426	1	774	
7373	37741	A	7427	2	158	
7374	37742	A	7428	1	174	
7375	37743	A	7429	252	1245	ELGECGCRQGSVSHCGRGRSRL LPRVRGKRHLPRARLARQCEAL SPWGFCRFRNHHQTGFSLAGA NQRGPLAATLSGPGGEGQSAV ARLMGEKKNHPGAQYATRLSP RVGRFINAAGTTGFPTGKRAPT CWPGADNIPSCALPRIETELM GKFDEGKLPTDPLMLGLAIET VAHDYDVIVIDSAPNLGIGTINV VCAADVLIPTPAELFDYTSAL QFFDMLRDLLKNVDLKGFEPA VRILLTKYSNSNGSQSPWMEEQ IRDAWGSMLKNVRETDEVG KGQIRMRTVFEQAIDQRSSTGA WRNALSIEWPVCNEIFDRLIKPR
7376	37744	A	7430	1	1113	
7377	37745	B	7431	56	1234	
7378	37746	A	7432	667	1048	LLLFRDLGIGTINVVCAADVLI PTPAELFDYTSALQFFDMLRD LKNVDLKGFEPAVRILLTKYS SNSNGSQSPWMEEQIRDAARFP GKPVVPAALMNRPTRRGEAVC VLGARVVFLFTSETGNS
7379	37747	A	7433	1	1428	
7380	37748	A	7434	1	1125	
7381	37749	A	7435	1	756	SDRRYEWDRGPSLIIRPTIRVGP WSQTNNQTDDTSGTVV/RRFP PVIGVVFHKGGVYKTSVSVHL AQDLALKGLRVLLVEGNDPQG TASMYHGWWPDLHIHAEDTLL PFY\DPHMLRLAIETVAHDYD VIVIDSAPNLGIGTINVVCAADV LIVPTPAELFDYTSALQFFDMLR DLLKNVDLKGFEPAVRILLTKY SNSNGSQSPWMEEQISDALRIS QRRNISSKFILQSACITLTTFIST CWAIIVTQSG
7382	37750	A	7436	1	1329	
7383	37751	A	7437	1	1185	
7384	37752	A	7438	1	1065	
7385	37753	B	7439	67	1033	
7386	37754	A	7440	1	1192	
7387	37755	A	7441	1	1413	
7388	37756	A	7442	1	1176	
7389	37757	A	7443	1	1302	
7390	37758	B	7444	1169	3356	
7391	37759	A	7445	14	3974	

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7392	37760	A	7446	677	1033	RATASSISTTRPCESTSNAPSCN SPIRSRSPLPIIRPRASITLILVSM MRMVRA TISCAILV SRCQPAISP PLCTAFFRPICAAGVPVFTLFTT TP*SLPLLLISAPSMPLKMELES T
7393	37761	A	7447	1558	1748	CSNASARFFAAVNPSGLGMILM *SRFIVFTKLSAIPLLSGLRTAVF FGSSPNIRANWRVSLAR
7394	37762	A	7448	1	595	LKNSKPQVVMMAAGIFLIMCG VWLGFGGVLDPTKSSGYLIVDI YNEIICMLSNRIAGLGLSIMAVG GYARYMEGTPASRAMVSLLSR PLKLIRSPYIILSAT*VIGQIMPAQ FITSASGLGMLLMVPLFPTLVSL GVSRLSAVAVIATTMSIEWGIL ETNSIFAAQVAGMKIATFFCHA HNPVASRVILSVAISGTRAR
7395	37763	A	7449	1	978	
7396	37764	C	7450	32	316	
7397	37765	A	7451	1	2465	
7398	37766	A	7452	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTDTGYLKIIIRAIYDKPTAN IILNGQKLEAFPI.KTGTRQGCPL SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPAR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQWGKDSL FHKWC WENWLAVCRKLKLD PFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YHLTPVRMAIHKSGNNRCWR GCCEIGTL

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7399	37767	A	7453	3	2272	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHLKSTEYFFSAPH HTYSKIDHILGSKALLSKCKRTE IITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNDYWVHN KMKAEIKMFFETNENKDDTTYQ NLWDTFKA VCRGKFIALNAHK RKQERSKIDTLTSQLEKEKQE QTHSKASRRQEITKIRAELEIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNLIDAIKND KGDITTDPTIEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPL NEEEVESLNRPIGAEIVAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLKLQFQIEGILPNQCY EASIIIPKPRDRTTKENFRPIS LMNIDAKILNKILAKRIQQHIKK LIHHDQVGFIPGMQGWFNIRKS INVIQHINRAKDKNHMHSIDAE KAFDKIQPFMLKTLNKL/DIGR NYCKVHMEPKKSPHRQVNPKE KEQSWRHHTT*LQTILQGYNSQ NSMVLVPKQRYRSMENRRLR NNAAYLQLSDL*QT*EKQAMG NGFPI**MVLGKLASHM*KAET GSLPYTLYKNQFKMD*RLKR*T *NHKNPRRKPRHYHSGHRHGQ GLHV*NTKSNGNKSQN*QMGS N*TKELLHSKRNYHQSEQATY KMGFNFHLLI*QRANIQLQ* TQTNLQEKKNQPHQKVGKGHE
7400	37768	A	7454	1	3020	
7401	37769	A	7455	1	3046	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ LEKEKQEQTTHSKASRRQEITKIR AELEIETQ
7402	37770	B	7456	197	1917	
7403	37771	B	7457	1	1954	

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7404	37772	A	7458	1	1947	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMIISIDAEKA FDKIQQLFMLKTLNKLIDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLEFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGDMFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEEYASIKKNEFMSFAGA* MKLETII
7405	37773	A	7459	1	1713	

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7406	37774	A	7460	281	2882	KPRLENYMKNAEASRADAINW KKG Y/LVMEDKMNMKREGKF REKRIKRNKQSLQEIW DYVKRP NLR LISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASIILIPKPGRDTTKKE NFTISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRTKDKNH VIISIDA EKA FDKIQQLFLLKTL NKL GIDGTYLKIKRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEV LARAI RQEKEI KGIQLGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTETQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIMKMAILHK VIYRFNAIPIKLPMTFFTELEKTT LKFTWNQKRARIAKSILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKCLKLD PFFTPYTKINSRWIKDLNVRPKT
7407	37775	B	7461	1	2633	
7408	37776	A	7462	3	1336	

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7409	37777	A	7463	2	2458	SWFFEKINKIDRPQARLIKRE KNQIDTIKNDKGDITDPTIEQIT IREYYKHL YANKLENLEEMDK FLDTYTLPRLNQEEVESVNRPI GSEIEAITNSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLFQPIE KEGILPNSFYEASIIIPKPRDGT TKKGNFRPISLMNIDAKILNKIL ANQIQQHKKLIHHDQVGFIPG MQGWLEVLARA/IRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PTVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCSWIGRINIVKMAILPKVI YTFNAIPIKLPMTFTELEKTTL KFIWKQKRSHIAKSILSQKNKA GDITLPDFKLHYKATVTKTAW YWYQNRDIDQWNTTEPSEIML HIYNHLIFDKPDKNKQWGND LFNKWCWENWLAICRKLKLD FLTSYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIGMGKDFMS KTPKAVATKAKIDKWDVIKLL SFCTAKETTIRVNRQPTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSLAIREMQI KTTMRYHLTPIRMVIIKSGNN RAPGGRGGCGCSFGRLKRSCVP ALKRVADLPAQRSSSAKGETAS
7410	37778	A	7464	2	2101	
7411	37779	A	7465	196	792	GILSFAKDMNRHFSKEDIYAAK KHMKKCSSLAIREMQIKTTMR YHLTPVRMAIIKKSGNNRCWR GCGEIGTLLHCWLDCKLVQPL WKS VWRFLRDLELEIPFDPAIPL LGIYPNEYKSCCYKDTCTRMFI AALFTIAKTWEPPKCSNMIDWI K/KMWH/IYTRDTMRPKNDEVQ SLVG/TWVNWETTFSVTIAVQK PTRLSH
7412	37780	A	7466	3	610	
7413	37781	A	7467	1	1986	

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7414	37782	A	7468	965	4421	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHILGSKALLSKCKRIEITNYLS DHSAIKLELRIKNLTQSRSTTW KLNNLLLNDYWVHNEMKTEIK MFFETNENKDTTYQNLWDAFK AVCRGKFIALNAYKRKEERSKI DTLTSQLEKEKQEQRHSPSR RQEITKMRAELKEIETQKTLQKI NESSWFFERINKIDRPLARLIK KKREKNQIDT
7415	37783	A	7469	1	1674	MGQLQRNARDLQESVMSIRM MPMEYVFSRYPRVLRLAGKL GKQVELTVGSSTELDKSLIERI IDPLTHLVRNSLDHGIPEKRL AAGKNSVGNLILSAEHQGGNIC IEVTDDGAGLNRERILAKAASQ GLTVSENMSDDEVAMLIFAPGF STAEQVTDVSGRGVGMDEVVCR NIQKMGGHVEIQSKQVTGTTIRI LLPLTLAILDGMSSLLTHGIGQF ADVACAGPLLAELDALGKAL KEPARPMVAIVGGSKVSTKLT LDSLSKIADQLIVGGGIANFIA AQGHVGVKSLYEADLVDEAKR LLTTCNIPVPSDVRVATEFSETA PATLKSVDNVDKADEQILDIGDA SAQELAEILKNAKTILWNGPVG VFEFPNFRKGTEIVANAIADSEA FSIAGGGDTLAAIDLFRIADKNS YISTGGGAFLEFVERLTTLTQLL HDQGYVTQAIGKWHMRETTEP QPQNVGFDDFRGFNSVSDMYT AWRDVHVNPEVALSPDRPAYI NQSPLSKDDVHALRGGDQQA ADNITPKYMADLDQRCTEYGAQ LLDKMAKSA
7416	37784	A	7470	1	3360	
7417	37785	A	7471	2	543	
7418	37786	A	7472	1387	1805	QAIAFDVQPRGQDYAGNQRRH NQYNQHQAHSWQRCGIGDGL ARFARHNATKPANKPGETGDR FNHQKNHGGQQDPVLHQLIEV MLVGRGGDQAVGQATLGIDTN VGLHAKV/LTDCLSWSDASPR VAALCSWSSWVPQ
7419	37787	A	7473	4088	4228	SPPSA*VKALPGPKHHGGLKPV HPIPGASLVLARRWSMFRRWG LIT
7420	37788	A	7474	332	538	

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7421	37789	A	7475	1	1983	
7422	37790	A	7476	856	964	
7423	37791	A	7477	1	1563	
7424	37792	B	7478	1	1086	
7425	37793	A	7479	372	886	
7426	37794	A	7480	2028	2368	RPPGNSLNVSRMGTRSSYSCRR HSPAFLSWGKGRCHLCNKAHL LAGA*HYSFLSGSAPY*N*VNG QI**R*TAHRSTPDAPTGH*NCC S*L*CHSY*QRA*PGYRHD*CR MCC
7427	37795	A	7481	146	402	LGFLRLSEMPRKQGDYRTRI/C EIRGRVEQRVGYTIEQINHMRD VFDRRYEWDHGPRLIIRPTIRVG PWSQSDYQTDDTSGTVVPD
7428	37796	A	7482	3	149	
7429	37797	A	7483	5	753	ARKVVAVAARHKCPA/CISFSA SHRLYRYWEEEMNPAPVEAMR TFQQFIDEGNYTSGDTHTLRDP HYVEDKAHKYLVFEANTGTEN GYQGEESLFNKAYYGGGTNFF RKESQKLQQSACKRDAELANG ALGIELNNDYTLKKVMKPLITS NTVTDEIERANVFKMNGKWYL FTDSRGSKMTIDGINSNDIYML GYVSNSLTGPYKPLNKTGLVLQ MGLDPNTNIQTDDTSGTVVQT NNQTADTSGTMVPD
7430	37798	C	7484	182	709	
7431	37799	B	7485	1	1488	
7432	37800	A	7486	2	1034	YLISQRGLIRRSKISLQTGSQIER AFLQAPVEER*SMACSK/YSSHP DLTFTNFIRFTYNIF*NHASPGIP NLLLHPRGLRAITIAVFGKQNT YIRLEPFKINVLEQITKHIEKLQC G/ECSQTTQQAWEQSAHQHIR H*SCRYPG*ARCQ*VHQARTL* DQRS*ADHEAYRKTAVRRCSQ TTQQAWEQSAHQHQHIR*SCR YPG*ARCQ*L*HHSHEQQFQWP VG/CIRCGSVGSLPSS\ICPLTQF QYGAEPDRKE*CQAPASKWAL LHK*HRPFPQDRKAGECLLHEY EDLVPIRDTLRLFPGGRYLPRA KHVAPSEPDPITIRVGPWSQSDY QTDDTSGTVVPD
7433	37801	A	7487	2	426	
7434	37802	A	7488	138	346	RWRLQNLSFCSSC/SRIWL*RGY VFCSWKPREQSSQSPLACSAAC LTLRTQSCLGTAGQTDDTSGT MVQY

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7435	37803	C	7489	1	1290	
7436	37804	A	7490	48	439	HHHSGGLDD/HRRKILNTAYRSR KLQASC*KSAERAWKTKASLT VNGWMKKIRCKTPMCRPTVR* SIRILIITTPRVPSPRS*LKPPTS CT*CIFTQPTRC*KMTTCWRCS TSRKSSGHVCVSPGSVAVTI
7437	37805	A	7491	1126	1340	KARWMLQTRKRAVRRSNWRK RNIWCAPAAICKRSTTLITSF*K PVKMACPFICAMLRRLARRC AGALPN
7438	37806	A	7492	12	960	
7439	37807	A	7493	1	1806	
7440	37808	B	7494	1	1318	
7441	37809	A	7495	1	1385	MLQIPKQQQNEKYQVPQFDQS TIKNIESAKGLDVWDSWPLQN ADGTVAEYNGYHVVFALAGSP KDADDTSIYMFYQKVGDNSIDS WKNAGRVFKDSDKFDANDPIL KDQTQEWSGSATFTSDGKIRLF YTDYSGKHGYGKQSLTTAQVNV SKSDDTLKINGVEDHKTIFDGE RKTYQNVQQFIDEGNYTSGDN HTLRDPHYQNTYIRLEPFKINVL EQITKHIEKLQCGGVVKQLSRR GNNQHISSTYDINRADTQVRA VNNYDIIVMSNSFNQSEHQV WIDRKAGECLLHEYEDLVPIRD TLRLFPGGRYLPRAKHVAPSEP DPEQDEQKLSCTYRKRYRVL VGELGDEQMAALSRLGNDYRP TSAYERGQRYASLLQNEFAGNI SALADAENISRKIITRCINTAKLP KSVVALFSPGELSARSGDALQ KAF*SASPD RADSSPG*EKRATT D/SRQFGGVDTAGNNLT*NIFRI SQRRNISSKFIQ*ACITLTTFIST CWAHVTQSG/LMQPSAHPAR QPEHDIAFGKCSSSVSVHLA/LG SGSEGATCFARGR*RPPGNSLN VSRMGTRSSYSCRRHSPAF\HRS TPDAPTGH*NCCS*L*CHSY*QR A*PGYRHD*CRMCC
7442	37810	B	7496	1	3597	
7443	37811	A	7497	1	666	
7444	37812	A	7498	1	738	

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7445	37813	A	7499	1	727	MKVLIVESEFLHQDTWVGNAV ERLADALSQQNVTVIKSTSFDD GFAILSSNEAIDCLMFSYQMEH PDEHQNVRLQIGKLHERQLNVP VLLGDREKALAAMDRDLLEL VDEFWILEDTADFYRRRTAPVA RE*TRYPPGSCWPPLF/TAPLMK YS\DIHEY\SWAAPGHQGGVGF TKTPAGRFYHDYYGENLFRTD MGIERSTAVSLLDHSGAFGQS EKYAARVFGADRSWSVVVGTS GSNRTI
7446	37814	A	7500	1	744	
7447	37815	A	7501	1	250	
7448	37816	A	7502	1	850	
7449	37817	A	7503	1	1085	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQIKEEDVLK FLAAGTHLGGTNLDFQMEQYI YKRKSDGIYIINLKRTWEEL\LR QPRA\MVPIENPAD\VSIVSSR\N TGQVCGTVRAVLRLAATGAT PIGG\RFPTPGTF\TN\QIQASLPGS PRAFLWVT*PPGAEPALSRAS LC*PFLPLALVNPD/SPLRRYV/I AIPCNNKGAH\SVGLMWW\ML AREV\LRMRGTISREHPW\EVM PDLYFYRDPEEIEKEEQAAAEK AVTKEEFQGEWTAPAPEF/TLA TQPEVADWSEGVQGAFLVP\IQ QFP\TEDWSAQPATE\DWS*A\P LAQATEWVGATTDWS
7450	37818	A	7504	1	1053	
7451	37819	A	7505	2	654	
7452	37820	A	7506	674	805	TLMQKSSIKYWQTESSSTSKSL STMIKWASSL*REIYSTKCPQEK AGKIQN*HPNITIKRTRKARANT FKS*QKARNN*NQSRTEGNRDT KNPSKN**/MPGAGFLKGSTKLI DR*QD**RKKERRIK*/IAIKNDK GDITNPTEIQTIREYYKHLYA NKLENLEEMHKFLDITYTLRLN QEEVESLNRPTGAIEIV*SIAY QPKKVQDQMQDSQANSTRGTRR NWYHSF*TIPINRKRGNP*TLM QKSSIKYWQTESSSTSKSLSTMI KWASSLGGKAGSIYANQ

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7453	37821	A	7507	1	1577	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLIDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSSTNHTEI QTTIREYYKHLVANKLENLKEI DKFLETYSPLRLNQEEVESLNR PITGSEIEAIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIVNQKRARIA KSILSQ/IEQSWRHAT*LQTLIQ GYNNENSMVLVSKQRYRSMEQ NRALRNNATYLPQPSDL
7454	37822	A	7508	58	330	FTENDDFQFHPCPYKGHELIIFY GCIVFHGVVYPHFLNPVYHCW TFGLVPSLCYCE*CRNKHTCAC VFIAA*FIVIWVYTQ*WDGWVK WYF
7455	37823	A	7509	1246	1522	DCLGNAGSFLVPYELGHYGHF HNIDSSYQ*AWMFFHLFVSFFI SLSSGL*FSLKRSFTSLVSWIPR YFILFEAIVNGSSLMIWLSVCLL
7456	37824	A	7510	140	577	YSMVYMCHIFLIQSIIVGHLGW FQVFAIVNNVTINIRVHVS*LQ DL*SFGYIPSNWMAGSNGISSR SLRNRHTVFHNG*TSLSHQQC KSVPISPHPLQHLLFPDFLMIAIL TGVWRWYLIVVLICISLMASDDE HFFMCFLAA
7457	37825	A	7511	399	677	NQREQRHNIPESLGRISV*RE IYSTKCPQEAGKIQN*HPNITI KRTRKARANTFKS*QKARNN* NQSRTTEGNRDTKNPSKNQ*IQE LVF
7458	37826	A	7512	1446	1855	IYKLPWAVWPFS*Y*FFLPMS/G GVFFHLFVSSFMSLSGL*FSLK RSFTSLVSCIPRYFILSEIVNGS SLMIWLSVCLLLVYKNACDFCT LILYPETLLKLSISLRRFWAETM GFSRCTIMSSANRDNLISSFRN

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7459	37827	A	7513	1	2982	
7460	37828	A	7514	5202	5430	
7461	37829	A	7515	2	454	
7462	37830	A	7516	2	744	
7463	37831	A	7517	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDEEVLAHRQEIEVAKA SPSKGNIIHFGYKGV EYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKA EK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWRSPYFFSPKPVPP QLLGGQPAHSRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSHHQQQ ESPLPTITHCAGCTTAWSPCSFN SPD METPLQFQRGFFPEQPPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPHLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLR TSSPGGAFRTTSSPLSG SSSSSSSSRRGSQLNVSELT SSHASALRQYQAQSAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHPHAPHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQLQPPASVGGGGGASSP SAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRRLS
7464	37832	A	7518	1	579	

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7465	37833	A	7519	1	1184	MSSANRSILEVPHLDILLQELPG VSKVVTVEVRGNWQRWLKVR DLTKGVTYFFRVQARTITYGPE LQANITAGPAEGSPGSPRDVLV TKSASELTQWTEGHSGDTPTT GYVIEARPSVFGNGSFQVSKEE NQYFSEGLTSIEVPSQQVQQEG AVAMALMVPDEGLWDMFVKD IPRSATSYTSLDKLRQGVTYEF RVVAVNEAGYGEPSNPSTAVS AQVEAPFYEEWWFLLVMALSS LIVILLVVFALVLHGQNKKYK NCSTRQGISTMEESVTLDNNGG AALELSSRHLNVKSTFSKKNGT RSPPRPSPGGLHYSDDEDICNKY NGAVLTESVSLKEKSADASESE VSVGAYFRAVTISPYFCKDAGF AVRTIALGLAETAGSKADARK
7466	37834	A	7520	1	1347	
7467	37835	A	7521	512	1051	MAYCKSTPAVGLRVTV*SL SRL SLICYTFCIGAPSHLSVGLIAT SFIVSNRPCRAPYVDTIYRLPSP LRLAGHRTLPLKPSFPRRSPPLL YYPSRPPAHYPLSPSSEPNNRY TMALTAVPYPYTSPLQAFPFLH SRIPQLQLFLLTNSFTSRTPVEP VQVLEILSQWKATTKWHYG
7468	37836	A	7522	352	546	
7469	37837	A	7523	1	360	
7470	37838	A	7524	3	349	
7471	37839	A	7525	1077	2142	SAVRYSVAITTA DRRTAAGAIS YPTK*S*SEPIQEGQPEEQ/RAN YPNGTYPTSLRHLERLWLSAL SVKARF/YHQQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VRTVEDPSGTQLEVVSNNPWD PKRQLLKWGDKWTGWDIPD YSAAPPEAVPSLNNPQTFSEQK LDEALYHGAVLRVRPKAMTVA VIIAGLLPILWGTGAGSEVMSRI AAPMIGGMITAPLLSLFIIPAAY KLMWLHRHRWLKCKSARRPQ YQSGYTDDRHSRSVKASPTAG LPSLTHEQQQKAVERIQELMAQ GMSSGQAIALVAEELRANHSGE RIVARFEDEDE

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7472	37840	A	7526	116	191	RLKFTETNLYTNIYVGSIIHLN LEIIHMSLH**MDRTNINIRVQIC FCEFKSLVLLDKPGRQELIDDL NKRTDNFLTDSGISVSDWIDAA TWEVFSSLRELELLGIKNIRLAS QDLHGVLSSSETVAEDIWCRILD TVTRKGEHSRRIHSADDSYLR PDLEWFKQRVEDDQSRSGRKI YVKRDLPHILTPFRAPMASVCA KRKGQVLHQYSLKKYRYKHI ADNVCQWLDEVFLRPKEMSDI HKLTFIEKRERLKNVFKSLHD VSEFLGRVLLHATDPAAPRKPA YSLHAIRGKSRGRKNS
7473	37841	A	7527	1	177	
7474	37842	A	7528	1	399	
7475	37843	A	7529	3	209	
7476	37844	A	7530	1	288	
7477	37845	A	7531	2	256	
7478	37846	A	7532	414	1188	TSFLTGGGKGS\KKKVVDPF KKD/WL*YVKHPAMFNIRNIGK DVGSPRTQGTKIAS\DLGKG\RV FE\VSLADLQHDEVAFRKFKLIT \EDVQGKNCLTNFHGMDLTARD K\MCSMVKKW\QTM\EAH\VD VKT\DG\YLLRLFCVGF\TKKR NNQIGKPF*AQ\HHRVRQIGKK MMEIMTREVQTNDLKEVVNKL IPDSIGKDIEKACQSIYPLHDVF VRKVKMLKKPKFELGKLMELH GEGSSSGKATGDETGAVERA
7479	37847	A	7533	1	1140	
7480	37848	A	7534	131	410	
7481	37849	A	7535	1	861	
7482	37850	A	7536	1	406	MWEILELPRDLLNGFAQNADS NMDNKVQAEVALDGNELVG YYSKASAGDTQANRVWSGPPA NSNRPAEGERNTININKKDIN TKTPSVGHRHQRPVKDKTTKT R\KTRAELKILKTRVPLIFQRT AALRQR
7483	37851	A	7537	1366	1629	TQSPVQTKPTPITTRGGGFLPTQ PFPVILQRQFCPE*LVAFMGS*E DVP*GSFRVSAESSIL*RAP*GA QSTCKPVNRNEKISKRIVH
7484	37852	A	7538	502	648	

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7485	37853	A	7539	I	1169	PPLLIPRQTGSGVDLQQTPTDLQ LRVLTVRRKTNKQKGHPHQNSI CTSPSSKTKDFKPTKIKRDKEG HYIMVKGSIQQEELTILNIYTPN TGAPRFIKQVLRDLQRDLDSHT IIVGDFNTPLSTLDSSKRQKVDK DIQELNSALYQADLTDIYRTLH PKSTEYTFPSAPHHTYSKIDHIV GSKALLSKCNRTEITNCLSDHS AIRLELRIKKLTENRSTTWKLN NLLKDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTGKAAC RGIFIAINAHKRNRQKRSKMDTL TSQLELEKQEQRHASKASRRLN QEEVESLNKPRTGSEIEAIIINSLP TKKSPGADGFTAIFYQRYKEE/ PGTIPSETIPINRKRGNTP*LIL*G QHHPDTKA
7486	37854	A	7540	I	404	MDEFLNTYTLPRLNQEEVESLN RPITGSEIVAIINSLPRKKSPPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTIKENFRPISLMNIDAKILN KIILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAFDKIQQP FMLKTLKKFGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWKNI PCSWVGRINIM KMAILPKVIYRFNAIPIKLPMTF LLEKTTLKFIWNQKRARIAK SILSQKNKAGGITLPDFKLYYK ATVTKTAWYWYQKRDIHQWN TTEPSEITPHIYNHLIFDKPEKNK QWGKDSL FNKWCWENWLAIW RKLKLDPFLTPYTKINSRWIKD LNVRPKTIKTLEENLGITIQDIG MGKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTKWEKIFTTYSDDKGLISRIYN ELKQIYKKKSDNPIKKVVKDM NRHFSKEDIYAAKHKMKKCS SLAIREMQIKTTMRYHLTPPSLL IPRQTGSGVDLQQTPTDLQLKV LTVRRKTNKQKVHPHQNPICTS PSSKTKELEKQEQTTHSKASRRQ EITKIRAELEKETQKNLQKINES RSWFLEKVNKIDRLRLARLIKKK REKDQIDA KNDKGDIITDPTEI QATIREHYKHL YANKLENLEE

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7487	37855	A	7541	3	1284	SAADTQANRVWVSPPTNSNRP AAEGPDC*KEN*QKGHPHQNP CQSPSSK\PKVDKTTKMGKKQN RKTGNSKNQSTSPPPQEHSSSPA MEQRITNAEKYLKDLMEKTT AQELHDECTSLSSPFDQLEERV SVMEDQMNMKREEKFREKRI KRNEQSLKEIWDYVVRPNPLI GVPESDRENGNKLENTLQDIIQ ENFPNLARHANIQIEIQRMPQ RYSSKRATPRYIIVRFTKVEMK EKMLRAARDKSLVTHKGKLR LTAGKFIALIAHKGNGERSKIDT LTSQLEKELEKQEQTHSKPSRRQ EITKIRAELEIETQTTLQKINES RSWFFEKINKIDRLRLARLIKRR EKNQIDAINDKGDITDPTDTEIQ TTIREYYKHHYANKLENLKEM NKFLDTYTLPRLKQEEVESLNR PIKALKLRQ
7488	37856	A	7542	1	1082	MLSSVGLLLTHRRKKKSTDTIN DESLNKERDMTGNPHIFPRYQE IWQVFVSSGNNYITTATGPTAV PPLLIPRQTGSGVDLQQTPTDLQ LRLTLVGRKTNKQKGHPHQNP CTSPSSKTKEIRTTIREYYKHLY ANKLENLEEMDKF/H*HIHPPKT KPGRS*ISA*TNRL*N*GNN** LTNQKKSRTWIHSRILPEVQG GADKQRAKHE*TPHNCFKENK IPRNPTYKEHEGPLQGELOTT QGNKRGYKQM/DRTFHAHG*E ESIS*KWPYCPR*FIDSPSPSSYQ *LSSQN\GKNYFKVHMEPKKSP YCQVNPKEQSWRHHAT*LQ TILQGYSNQNSMVLVPRYR MEQSPQK
7489	37857	A	7543	1	2012	MNLSRHLNEVKGELLWSLEWR DPDGGIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPIPH LFGLQKKMDLKGVPKSCFKI YCCKHLLKTGFISEAVLCYGE GGEGDTVLTMKERWPHCEVLI QCNKGRLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQKPKMSPS SKTKDFKPTKIKRDEKGYHIMV KGSIQEELTILNIY

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7490	37858	A	7544	402	675	QGYPGTELSSAPSGPNRHLQNF PPQINRIYILLSTTSHLFQN*PHS WK*STPQQM*KRRNYNKNQQL ELRIKKQTQNRSTTWKLNLL NDY
7491	37859	A	7545	21	428	DKTSRGTIQQHLLFTNIRCSAA SAADTQANRVWSGPPANSRDP AAEGPDC*KEN*QTERTSTPKS HLYVTIHKDQRNKIPKNPTYKG CEGPLQGELQTTAQQNKRRYK QMQEHSMLMGRKNQYHENGH TAQGNL
7492	37860	B	7546	1	1650	
7493	37861	A	7547	1	946	MAMPPLLIPRQTGSGVDHQQT TDPQLRILTVRRKTNTQKGHPH QNPNTSPSSKTKELKEEVGTQ RKEVKNLEKRLDEWLTRIANA EKSLKDLMLKLTMAQELQLDK TTLNFIWNQKRACIAKTILSKK NKAGGIRLPDFKLYYKATVTKT AWYWHQNRIDQWNRTEASEI MPHIYNHLIFDKPDKKKQWGN DSL/K*MVLGKLASHMQKTEI GPLPYNFYKN*LKMD*RLKGK T*NHRNHRRKPKQYHSGHRHG QRLHD*NTKSNGNKGQN*QMG SN*TKELL/RQQKKLPSE*TRNL QNGRK FVQSIYLTG
7494	37862	A	7548	189	380	QTERTSTQNPICSPSSKTKGR* NHKDGEKTEQKNWKL*KAERL SSSKGMQLLSSNGTKLDGE
7495	37863	C	7549	1	2805	
7496	37864	A	7550	535	696	
7497	37865	A	7551	214	363	LLEGKLTNRKE*HQHQKKGHP HQNPICSPSSKTKVT*NHKDG EKT*QKS
7498	37866	A	7552	787	1056	GQKKKLMIIIGINSRNHHGPO*P ALQKMPAS*VTEIMNNHFLFCF RKGKGRIKLVNSRVEHQAGSW GPWFQSLVAGQYFWTCSGPDG SPLP

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7499	37867	A	7553	1	4560	MKHTLIPRIKNACLQMSSLAVP VNSLVCLGKILEYLDKWLVL D GILPFLQQIPSKESAVLMGILGIY KCTFTHKLGITKEQLTGKVLPH LIPLSIENNLNQFNSFISIIKEM L NRLESEHKTKLEQLHIMQEQQK SLDIGNQMNVSEETKVTNIGNQ QIDKVFISHIGADLLTGSDSENK EDGALNVPPAGAKPTQQRPTD MSALNNLFGPQKPKVSMNQLS QQKPNQWLNQFVPPQVSPATG SSVMGTQMNMIQ
7500	37868	C	7554	1	1359	
7501	37869	A	7555	272	915	YPGKQGLEWTSSKLQQTCC*GS *LLEGKRTNRKDINTKNPSVRH HHQRPKMGEKTEQKNRKLKIR APLLLQRNTAPH/HAMEQSWM ENDFDELREEGFRRSNYSELKE EVRTNAKEVKNFEEKLDEWIT RITNAEKSLKDLMEKTTAEN YVTNAQAPVANATN*KKGYQR WKT*MK*SEKRSLEKKE*KEK KQSLQEIWVYKRPNLCLIGVP
7502	37870	A	7556	196	494	HTDGVSVWMSFLVFSFSPNSQD PQLQVCWSLLEVHSRCLPGYQ QQRIRLEPFKINV/T*ADHEAYR KTAVRRCSQTTQQAWEQSAHQ QHIRH*SCRYPG
7503	37871	B	7557	28	303	
7504	37872	A	7558	1216	1863	HPDITIKRTREARANTFKS*QKA RNN*DERRTEGNRDTKNPSKKS VN/RRSWFFEFKFNKIDRRLARLI KKKREKNQIDAINKDKRDITD PTEIQTIREHYKHLANKLEN LEEMDKFLDTYTLPRLNQEEVE SLNRPITGSEIEAIINSLPTKKSP GPDGLTAKFYQRYKEE/PGTIPS ETIPINRKRGNPP*LIL*GLHHPD TKAWQRHYKKREF
7505	37873	A	7559	166	785	FRATSAADTQANRVWSGPPAN SNRSAAEDPDC*KEN*PTKGGHP HQNPICTSPSSKTKARQANIQQ EIQRMPQRYSSRRATPRCIIVRF TKVEMKEKMLRAAREKGQVT HKGNPIRLTADLLVKTLQARRE WGPIFNILKEKNFQPRISYPAKL SFISEGEIKSFTDKQMLRDFGTT RPALKELLKEALNMERNNQYQ PLQKHVRL
7506	37874	A	7560	1	1164	

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7507	37875	A	7561	770	2670	RRARCSCAPSSTTTLGRTGPSLA RRRACPSSAGRSWRW*ARTTPR GGRPSESPTTFEPASSPPRGSR RDFQEGQSWVRGWQL/WTSTV GCSPHIFWCVDCECDCEGYLK GHYVAGLRRSFRLLGCRERLGG QEGKMSSGAESPELLTYEEVAR YQHQPGERPRLVVLIGSLGARL HELKQKVVAENPQHFGVAVPR APWDVKLQWAEDPGSECDKE DEEEENEGARFLEHGEYKENLY GTSLEAIQAVMAKNKVCLVDV EPEALKQLRTSEFKPYIIFVKPAI QEKRKTPPMSPACEDTAAPFDE QQQEMAASAAFIDRHYGHLVD AVLVKEDLQGAYSQLKVVEK LSKDTHTWPLVIPRQTGSGVDL QQTPTDLQLRVLTVRRKTKKQ KGHPHQNPCTSPSSKTKVGER VSVIEDQMKEMKREKKFREKR VKRNEQSLQEIWVYVVRPNLR LIGVPESDGENGTKLENTLQDI MRENFNRRARQANIQEIQRM PQRYSSRRATPRHIIIRFTKVEM KEKMLRAAREKGWVTHKGKPI RLTADLLAETLQARREWEPFNI LKGKNFQPRISYPAKLNFISEGE IKSFTDKQMLRDFVITRPAQEL LKEALNLERNNWYQPLQKHAK
7508	37876	A	7562	181	690	QHAIVTGDVGMDDIPQEARQ YRHNQAYAYSIIQGDGAEDDDE RIVRFHTRCLNGRVLL*DK/IFQ RNDQAATFAAHQYPLFCSLHC* YPGTQGLEWTSSKHQQTCS*GS *LLWPGDERLWPSWEEQKKLS LPTDPDTWL*GSPQAAQGPCV PPPGAQPLSSVTASLCHCA

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7509	37877	A	7563	2	2233	SSNILTVHEQANVESLKETKQ NCKDLDEDANGITDEGKEINEK SSQKLNLSLQDTSLQHDDEEE STVISVSEDMNSEGNVDFECDT KLYTFLSSDESQQSENEED TLCFVENSQGQRESLSGDTGSL CDNALFVIDTTPGMSADKNFY EEEDKASEVAIEEEKEEEDEKS EEDSSDHDENEDEFSDEEDFLN STKAKLGRLTPHMAGYSSETKL PEERPGSNICCSPIAVLQPPLLI PRQTGSGVDLQQTPTDLQLRVL TVIKKTNKQKGHPHQNPICSTP SSKTKDRSTRQKVNKDIQELNS ALHQADLIDIYRTLHPKSTEYTF FAAPHCTYSKIDHIVGSKALLS KCKRTEIITNCLLDHSAIKLELRI KKFTQNCSTTWKLNLLNDY WAHNEIKAEIKMFFETNENKDT TYQNFWDTFKAVCRGKFIALN AHKRRQERSKIDTLTSQKLELE KQEQTHSKASRRQEITKITAEL KEIETQKTLQKINESRSWFFEKI NKIETASKTNKKREKNPIDAIK NDKGDITTNPTIEIQTIREYYKH LYANKLENLEEMNKFLDTNTIP RLNQEEVESLNRPTGSEIAIIN SLPTKKSPGPHGFTARFYQYK EE/PGTIPSETIPINRKRGNPP*LI L*GQHHPDTKAWQRHNKKREF *TNIPDDHQCKNPQ*NTGKPNP AAHQEAYPP*SSGLHPWDARL
7510	37878	A	7564	3	377	DHNCATVLQPG*QSEIL*KEERE REREKKERKKERKKERKKERK KEGKQ*RKGGRRKKERKEKEIK KERRKGKKEKKEEKRRKERK KERERKKRRKEGRKKEYTRKA KRIHRPFEGNGSPLPAP
7511	37879	B	7565	1	834	
7512	37880	B	7566	1	915	
7513	37881	B	7567	1	666	
7514	37882	A	7568	330	793	SCWLCPGPCCPAQPQNTAPPIPE A*TPAMAERGPATAAGQLEFT GGALQTLFAWVSAAAAAEQWI LVNRKCCCLIVPLEVLSQRSTW PCIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPV LGALSDFRGRPGLLASLLGAT

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7515	37883	A	7569	991	1842	IQCHPHQATKNFLHRIGKNYFK VHMEPKKGPCHCQVNPKEQS WRYVKQSKKIAVYAERSRCSP GTEFAGTLILDFPSSRTAPSSRG R/P/GRLTRPGTPLRQSFQRNDQ AATFAVQQYSLFCSLCC*YPGK QGLEWTSSKLQQ/YLQLRERSS SPATEQSWMENDFDELREGFR RSNYSKLKEEVQTHCKEAKNL EKRLDEWITRITNVEKSLNDLM ELKNMAKELRDERTSFSSEFNQ LEERVSVIENQMNMKREEKFR EKRVKRNEQSLQEIWVYVCRP
7516	37884	B	7570	1	2448	
7517	37885	B	7571	2379	4476	
7518	37886	A	7572	1	570	
7519	37887	A	7573	1	1404	
7520	37888	A	7574	1	474	
7521	37889	A	7575	746	1215	PNINRFLKHYREPVPKKRERNY STLWPLCPSTLNKIYTIMSYLSP ATKEYPFFLLLEQEC*AE*LLA LAVSQPLLSSTTNCLKN*MTW NGSLIPWSPCKINLTP*/PAVVL QNRRALDLLTAESGGTFLFLEE KCCCYVNQSGIITEKVKEIQGRI
7522	37890	A	7576	1	1178	MPESPTPLLGRDILAKAGAIHL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFYQRYPLRPEAQQGLQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPVNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQECHQATQV LLNVLATCGYKVKQKAQLCS QQVKYLGVKLSKGTRAL/QQ*R TDRT*LSTSNCSNLRHSRGPSRG SLD*SQPQLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKGL IRIYMLPLILSAPYDHLH
7523	37891	A	7577	1	1338	
7524	37892	C	7578	109	231	
7525	37893	A	7579	279	346	LLRLALLLQ*QKEEWVLFCCGA
7526	37894	A	7580	260	393	VEVVILPMPVNPVLPISIPARITKG RMGTLLLRGLGTT*LYKSCSV

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7527	37895	A	7581	3	2677	TKETCFIRGPKTPVPVTDWEGS LPLVFNHCRDTSVIIIHPRFKGVR PRRDACLGPSPLAASPAFLGKG QAELGPNSSASAPPPYNLFAS PPHTWSGLQFRSVTSPPPAQF TLKKVAGAKGIVKRLKTDAR SPWKTPRPSRTPSFRKAERTKG LLKIHCLKLSHQLKKDWTILLP LSLLRIQACPRNATRLATGQLG YPFISQSYVLVNGFQTVEDLCE AADLRVSVADLRVSVTALKVA RLELFVPPGGLVVSLASAVKLQ TFAVLQLIAKRWDTGTEQ AALIGEARD AQEPTGEGVGGSG MAGCRSRDLPRGKAAKARREI ERSAGLTIKKERCIRNGYSKEK MKLIVVSHGLHVNDLQHKLT FTKETYTYLARDSEKQKQGYL AGLEGAHANRVNQISDNLVV KTGALPPPYRTKGEKLYFYMSR QNCLFSVSGQLLQGFFPNGGQA APNPYALLSQIPEEAEWFTVLD LKDDFFCIP/VHPDSQFFAFEDP SNPTSQLTWTVLPQGFR\HLFG QALAQDLSQFSYDLTVLCGVL KSPHIVWELNQIDTIKNDKGDIT TDPTEIQTIREYKHLTYTNKLE NLEEMDKFLNTYTLPRLNQEEV ESLNRPTGAEIEAIINSLPTKKS PGPDGFTAIFYQRVADVKLREE KDENMLLVPLSDLLYQVHAIP QLPEVLAANSPTCHLDPTTITES
7528	37896	A	7582	1	459	MAVRYTDENVLRKGTREAGT MMRLRGTTTECCADFAAWDVT HDALRATGGELPGAQVMLTTT ECGRHVDFCDRAVWLPRMWG YPLALPGEMRKLYTVRMAGRD ILAKAGAIHLNIGEGTPVRCPL L/EGINPEVWKTEGQYRQAKNA RPVQVKL

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7529	37897	A	7583	3	910	YFSQPLSY\DWGALFFSHAFLIM LESPTTLLGRDILAKAGAIHNLNI GEGTPVCCPLLEEGINPEVWAT EGQYGRAK\NARPVQVKLKDS ASFPYQRQYPLRPEA/LTKGFQ KIVKDLKAQGLVKPCNSPCSTPI LGVQKPNGQWRLVQDLRIIDE AIVPLYPVNPYPYTLLSQIPEEA ELFTVLDLKD\AFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQQEQCHQATQV LLNVLATCGYKVKSKQAQLCS QQVKYLGVKLSKGTRAL
7530	37898	A	7584	158	1272	NPAARTPFFVIKKGKGRGRDIL AKAGAIHNLNIG/GTPVCCPLLE EGINLEDWATEGQYGRAKNAR PVQVKLKDSASFPHQYQYPLRP EAQQGLQKIKDLKAQGLVKAC NSPYNNPTLGVQKPSGQWRLV QDLRIINEVTVPLYLAVPNPYIL LSQIPEEA\EWFTDLDLKD\AFFCI PVHPDSQFLFAFEDPSNPMSQL TWTVSPQGFRDSPHLFGQALA QDLSRFSYLGTLVLWPCISI/LCT *TMEQLQHRNKH\HFRFSRTSCF QSGNNPYLKPHLCKI*QYCRHN QLPMHQCPHDHLH*TRFI/PIML YLSPTTKEYSFFLLLSEQEC*VD *VLALAVPQPLLSSTTNYLKNS MVTWNGLPTPWSPCKINLTS

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7531	37899	A	7585	1	2083	MPLLQMIATPLQQSLISTEDEM DELTEVGFERWVITNFTEEPSA LGFTPEHKGNVGHAGKGPLESS SPDPFLCGQEKQEKGAGLLHRQ YPLRLEAKQGLKKIVKDLKAQ GLVTPCSSPCNTPTLAVQKPNG QWRLVQDLRIINEAVVPLYPAV PNPYILLSQIPEEAEWFTVLDLK DAFFCIPVHPDSQFLFAFEDPSN PMSQLTWTVLPQGFRDSLHLFG QALAQDLSQFSYLDTLVLQYM DDLLLVTHTSETLCHQATQALFN FLATCGYMVSKPKAQLCSQQ/R YLGLKLSKGTRALSEEHIQPILA YPHPKTLKQLRGFLGVIGFCRK WIPRYGEIARSLNTLIKETQKAN THLVRWTTEVEVAFQALTQAP VLSLPTGQDFCSYVTEKTGIAL GVLTQIRGMSLQPVAHLTKEID VVAKG*PHCLR VVVAVAVLVS EAVKIIQGRDLTVWTS HDVNGI LTAKGDLWSDNCLLKQCALL LEGPVLR LCTCATLNPATFLPD NEEKIKHNCQQVISQTYATRGD LLEVPLTDPDLNLYTDGSSFVE KGLRKVG YAVVSDNGILES NPL TPGTSAQLAELIALTWALELGE EKRANI/YTDSKYAYLVLHAHA AIWKEREFLTSERTPIKHQEAIR KLLAVQKPREVAVLHCRGHH KGKEREIQENCQAYIEAKRAAR
7532	37900	A	7586	80	678	LCCNMPAAQHRERASNESRHG GCCPP/PWLLSS/APPHDAFTTPQ EAVLSAPSALPSSAATSLLSLLT PQQMFCSKTAGPKPFSSNPHPR LKAPTSSC/PL*PQAAPSGNAHC Y*GHRRGRTVPEDPGCLSPRAR PHRTSGTSSPPSLQPSRTIPPASS APKQGDAGSPPYQAVPEKNKP GATPRTCAESPKRLPRPGPKSFL

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7533	37901	A	7587	3	804	GLLQATALQPAQQI*IFL*KKEE EEEGGGGEGEEKKKKKKTEEE EEEEERKK\EEEEEEEEEEEE EEEEKEERTGAGDSEDEGFDEI PSPGDSRQKTEGNAANIISGCD QRYEESEMDLGRGIVSGHRYI FTFRVSPLEAIGELLFPFSVAPA QGGLGFRRVDQLALPMGAQSL ERPFCVDGGSRPPLNYAVSSVE DLLNGNNFKCPTTLRTIEITVGN LIISPRQQLNANIGKNFNAEN HENAKTTTRSSTVGADTHLTA
7534	37902	A	7588	3	191	SSHPVFSRWWLSPHPQSQCYT* GSGAQNLTA SPFCVCRGDRGN HLRKDTKVEVKRKT CWL
7535	37903	A	7589	1	1899	HVGASDPDAGPGWGGLTSRPR LVTPRSAPRGRAFGATVGLAP VEGMCRAESSGGVSTDHSELPI GAAATMAHEIGHSLGLSHDPD GCCVEAAAESGGCVMAAAT/G VRGWGVGAAAGRLVLGTSSA AFLWSSLSFLFCKMGIMIIVSAS GWFMRKKGKKLRQSGFSTV*R LFSE*PGEVTPTPGGAPSGRDST LGPGLLTIGASSPVPLVV*LCA GYFPSLGSARLA AVAKPRGGD QRSAGVGGLSLHAQCPRAGR HPFPRVFSACSRRLRAFFRKG GGACLSNAPDPGLPVPPALCGN GFVEAGEECYCVS\GQECRDLC CFAHNCSLRPGAQCAHGDCCV RCLLK PAGALCRQAMGDCDLP EFCTGTSSHCPPDVYLDDGSPC ARGSGYCWDGACPTLEQQCQQ LWPGSHPAPEACFQVVSAG DAHGNCQDSEGHFLPCAGRD ALCGKLQCQGGKPSLLAPHMV PVDSTVHLDGQEVTCRGALAL PSAQLDLLGLGLVEPGTQCGPR MVCNSNHNCHCAPGWAPPFCD KPGFGGSMDSGPVQAENHDTF LLAMLLSVLLPLLPGAGLAWC CYRLPGAHLQRCSWGCRQGPC VQWPQRWPTQGPPPGRRSPHG VGPHSHWTALAPGP
7536	37904	A	7590	2	280	
7537	37905	A	7591	1	1266	

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7538	37906	A	7592	1	458	LQQSQIFEIHSQKTIVKKCLDLF FELAEKENYKNFFEAFSKNLAK LGIHEDSTNRRRLSELLRYHTS QSGDEMTSLSEYVSRMKETQK SIYYITGSPCWCLVFFSLSCPCV EGSKLRVSSPIPSLLLTAGLDVV YCGLFYFLHFVLKLYAK
7539	37907	A	7593	1	862	
7540	37908	A	7594	3	437	IPEF/LNF/IRGVVTLGLPLNISRE MLQQSKILKVIKKNIV*EC/LFEL LSELAEDKENYKKFYEAFSKNL KLGIEDSTNRRRLSELLRYHT SQSGDEMTSLSEYVSRMKETQ KSIYYITGESKEQVANSFAFVER VPLSHLAPPAGV
7541	37909	B	7595	106	1966	
7542	37910	A	7596	453	719	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRCWRL QKAGE
7543	37911	A	7597	3	837	PECVIGIDILSSWQNPFIGSLTG RVRAIMVGKAKWKPLELPLPR KIVNQKQYHILGGTVEISATIKD LKDTEAVTPTTSPFNPIWPVQ KTDGSRMTVDYCKLNQVVT PIAAVPDV/VSLLEQINTSPGT WFEWSPK\KALQQVQAAVQAA LPFGPYDPADPMVLEVSADR DAIWSLWNAAGESQRRPLGF WSKALLSSADNYSPPERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ RSIIKLKWIHDWVRAGPEGT
7544	37912	A	7598	1	399	
7545	37913	A	7599	126	392	ARGSKHTGLIAQWAHEQSGHG GRAGGYAWAQQHGLPLTKAD LPAMATAECPICQQQRPTLSR YGTIPW/WAWDAPGGRCWRL QKAGE
7546	37914	A	7600	1	1677	
7547	37915	C	7601	37	465	
7548	37916	B	7602	1805	2542	

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7549	37917	A	7603	3	865	VIPTTSQFNFIWVPVQKTDGSW RMTVDYCKLNQEENFNNQVDR MTHSVDTTQPLSPATHVITQWA HEQSGHGGRDGGYTRVQQHGL PLTKADLATAGKVFQKAV*AL N*HSIYGTLSLIARIHRSRNQGV EVEVAPLTISPSDPPAKFLLPVP PTLRSAGLEFLVPEEGMLPSGD TTVPLNWKLRLPPGHFGLLFPL HQQANKGRLSPHSRERGTSVFA SSNSQPVTALNNEPAGPNKRDI GKAKGLKFHHPGPHRQERDML E/SML*PWGYPVGKQWNHLIK KQGRH
7550	37918	A	7604	3	857	VTASLSPVVATSPQPMLPSDFP PLSEEINPMLPEATVIASPEIAR QDNVDSPQEPPPTPQFSSRPITR LKSQWAPRGPECVIGIDILSSW QNPHIGSLTGRVREGYMGVKA KWKPLELPLPRKIVNQKQYCIP GEIAEISTTIRDLDKDTGVVIPTTS PFNSSIWPVQKTDGSWRMTVD YCKLDQVVTPIAAAVPDMVSL VKQINTSPGTWQHITHLDVLLW RIYQVTQKAASFEWGPEQEA LQQVQAQAAVQA\CHLGHMTQQ IQWCLRRNGEMCDYILIYGL
7551	37919	A	7605	1	608	MAPGMVPIPPPGKYHSPKKLIY STPPKPGTYGISDSLSQYPTSAK AEPVPTHKNPRRESPIHSSPSSF TDG/PSPNSPGDARPHQNKTS RGRPAPRQVRPTTITTPAPPARS PNSAHSPAFRDLPFRAEKGTA ARVPREPHSPAPPKNKGSQPP AGELLQRGARTTLPRILGTAPG PHLPGCSAPPAP*RPAAPIGL
7552	37920	A	7606	179	544	HTRLHSHPLRGFSPWLFHVS RSPASGHLEFPFARSSGSGSTS PLSFGAMTTEKQALGGRAAFPP KYK*AQGRAACFVLTSQQQPS WQ*GVTVTATGSPMHRGTFWH SCTGTPGSGDR
7553	37921	A	7607	90	653	VPGERPRGQSGPQVLPYGPTWC SSNTPEPQSLRAPQ*LQVPVPLQ SRGQR*QPQPMP/VRSQPKAP*V QMPPTSSAKGPHLDGVRVPA ANPE*PTAGPTRAAILRATPAPS LPMPGTNRPSRGNLQDSAPA SDAGWPTEAVTCP/PWSREN PQRNL*AHRPQGPRPVPGTERR NGRGGAGCRQL

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7554	37922	A	7608	1	804	
7555	37923	A	7609	28	682	TTCEMSDLEDDETPQLSAHG/T LAALQEFYAEQKQIEPGEDDK YNIGIIEENWQLSQFWYSQETA LQLAQEAIAAVGEGGRIACVGS P*CLPET/HESCAEKTFSIYIFEY DKRFAME*KEVLIFYDYNPLD LPERIAAHSFDIV\ADPPPYLSG\ ECLRKTSETVQV\LTRGKILL\CT GAHHGRTGSRTPLE*RCARLFP RHTRNFGKWSFRLVYVNL
7556	37924	A	7610	1	611	MAPKAKMEAPAPPEAEAKVKA LKAKKVVLKGVHSH/KKKKKI RTSPTFR*/PLRLRRQPKYPWES VPRRTSTQISSGERPLENKQPRY PRESSPPPGEQAPKYPPPEERSPG ETRLDHLCLSIKFP/LTH*VLP MKKIEDNNTL\VPLVNVKANKH\ QIKQAVKKLYD\ADVAKVNTL\ RPDGEKNGICSDLAP\DYDALG CLPTKFGII
7557	37925	A	7611	1	1035	DKDSLCDSCKTSCSYNCSKPRS SWQDQDISSGTGLHSRLTLANT GKESKTVQASLDQQLGRLLSVS LRLGVEPSLQSSGNLLVSLLSR FITYKVTIVEWVKTYALGLDLK KSERPGFESELHSHNSCECAVS HLKPVHLRVSPMGHSEYYLVT TADYSEANGSQSAGDEFFQTQS FPSRQQALFRPKIQITIREYYKH LYANKLENLEEMDKFLNTCTL QRLNQEEVESLNRPTGSEIEAI NSLPTKKRPGPDGFTAKFNQRY KEELVIYKKFQIPCIVPELNSTIS ANSTNADTCTPKYVTFNSKGT AQNADSDSAGLE/CEPDVLHI** SLRLGVEPSLQSSGNLLVSLLS RFITYKVTIVEWVKTYALGLDL KKSERPGFESELHSHNSCECAV SHLKPVHLRVSPMGHSEYYLV TTADYSEANGSQSAGDEFFQTQ SFPSRQQALFRPKIQITIREYYK HLYANKLENLEEMDKFLNTCT LQRLNQEEVESLNRPTGSEIEAI INSLPTKKRPGPDGFTAKFNQR YKEELVIYKKFQIPCIVPELNSTI SANSTNADTCTPKYVTFNSKGT AQNADSDSAGLEWSLMFCISD KVSGDDDDADA VDS

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7558	37926	A	7612	3	573	KEETFSAWYVDGRVLVVIVTF GIILPLCLLNKLYLGYTSGFSL SCMVFFLIVVIYKKFQIPCIVPEL NSTISANSTNADTCTPKYVTFN SKTVYALPTIAFAFVCHPSVLP YSELKDP\SQKKMQMVSNISFF AMFVMYFLTAFGYLTFYDNV QSDLLHKYQSKDDILILTVRLA VIVAVILTVPV
7559	37927	A	7613	1	831	MSELEDRLFENTQSEESKGKRI KKNEVCLQDLKYSKLRANLRD TGLKEEVYKKFQIPCIVPELNS TISANSTNADTCTPKYVTFNSK KKMQMVSNISFFAMFVMYFLT AIFGYLTFYDNVQSDLLHKYQS KDDILILTVRLAVIVAVILTVPV LFFTVRSSLFELGLRKQRFNLW PSIPVVTICILLVINLVGDLHTP P*RIFFGVVGSYILLNMLIFILP/S IFFILKITDQDGDKGTQRIWAAL FLGLGVLFSLVSIPLVIYDWACS SSSDEGH
7560	37928	A	7614	1	1118	FNCEIFYSF/SYGDEEISKTFALN ERRGEIKIIRKLD FEKIVSYQVDI KASDGAGLSGKCTVIIQVVDIN DNAPELTMASTSPIRENSPETV AALFSIQDRDS\FALRSLDYEAL QEFEFVRVGASDPGF\PALSSE\AL VRVL\VL DANDSSLFVLFPLQN GSAPCTEL\MPGAAEPGYLVTK QLLKATEPGLFGVWAHNGEVR TARLLSERDATKHRLVVLVKD NGEPPRSATLHVLLVDGFSQ PYLPLPEAAPAQAEADLLTV YLVVALASVSSLFLLSVLLFVA VRLCRRSRAASVGRCSVPEGPF PGHLVDVSDTRTLSQRYKYEVEF LTRGSGTNEFKFLKSVIP/QASG RCE*WEEKSNFVNGFGFN
7561	37929	A	7615	1	764	TRPGAHGASLTDLANLSEGVSL AERGSFGAMDDPFKNKALLFS NNTQELHPDPFQTEDPFKSDPF KGADPFKGDPFQNDPFAEQQT STDPFGGDPFKESDPFRGSATD DFFKKQTKNDPFTSDPFTKNPS LPSKLDPFESSDPFSSSVSSKGS DPFGTLDPFSGSFNSAEGFAD FSQMS/KGKSTPVSQLGSA DFPE APDPFQPLGADSGDPFQSKKGF GDPFSGKDPFVPSSAAKPSKAS ASGFADFTSVS

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7562	37930	A	7616	1	817	MGFCHVGQASLKLLASDPFGT LDPFGSGSFNSAEGFADFSQMS KTDPQVRSELLK\GTAARLVTR LDPLVSGPH\TR*PELTVALVPD SCRASPDAGSVVGAHL*GLGTT GAADGGTP\NSNRSFVLGVIIIV WSMCQLYLVP PPPSGPFTSSLG GAGFSDDPFKSKQDTPALPPKK PAPPRPKPPS/GHRLPVPDGGGP GPPCSP/DPE*QMPWDPVWGA RGSPRPSCPGPRKCRMVVP RV IQHPSLLLPSLVGRRSQPQIWRS HPMPAAPP S
7563	37931	A	7617	3	1039	GSLMFQQVPMVEIDGMKLVQT RAILNYIASKYNLYGKDIKERA LYAMTHDDE\AELRTPAAACKL *SECQFRTRVDAVRTMMIP/AFT QVLKSHRQDYL VGNKLSWADI HLVELFY YVEELDSSLISSFPLL KVKLLASSVKPVPLPSALRWPA HAVAQNI VTSWLTGGRFIELKT VQILDRLELEKPCIDAEDECNT EWSTEFTLLKAWDEYLKAWFA LHLEAMFQPSDSGKSFIFNMS VGYNLEGQPLNPKNYPSQGV RVLKSHRQDYL VGNKLSWADI HLVELFY YVEELDSSLISSFPLL KPHTHVDNTKKGSHPHMCAYT DYVNNPNDRMPQREITFVS
7564	37932	A	7618	2	698	NQKTVTMAGKPKLHYFN GRGR MEPIRWLLAAAGVEFE EKFIGS AEDLGKLRNDGSLMFQQVPMV EIDGMKLVQTRAILNYIASKYN LYGKDIKERALIDMYTEGMAD LNEMILLPLCPAE EKDAKIALI KEKISRYFPAFEKV LQSHGQD YL VGNKLSRADISL\VELLYYV EELDSSLIS\NFP\LLKALKTQNP ATLPHG*RSFLQPVGSPRKPPAD AKALEEARKIFRF
7565	37933	A	7619	102	825	RNLQETA IMAEKPKLHYFNAR GRME\PPRWLLAAAGVEFE EK F IKSAEDLDKLRNDGYLMFQQV PMVEIDGMKLVQTKAILNLHLP ANYNLLMGKDIKGREP*FDYVF *EGFSQILGLN*SSFLPVCAPPE\ E KDAQALPLIQE KTKNRYFP AFE KVLKSHG\QDYL VGPTSLSRGW TFIWWELLYYVEGA WTPRLISS FPLLKALKTRISNLPTVKKFLQP GSPRKPPMDEKSLEEARKIFRF

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7566	37934	A	7620	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPGVGRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLAQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHLPIYRVSRKAANFEWSPEQEALQVQVAAVQAAWPLGPYDPADPMVLEVSVADRDADWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAAIGERQETAVGKTARDGEAVCD
7567	37935	A	7621	1	518	MTVDYCKLNQVVIPIAAAVSDVVSLLAQINTSPGTWYAAIDLANAFFSIPVHKAQQKQFAFSWQGQQYTFTVLPQWYINSPALCHNLIRRDLDCFSLPLDITLVHYIDIMLIGSTIKWVVHSS/DSIIKWKWYVHDWARAGPEGTTNGLAG*SGTCKKHEWKTGDKGIRGRG
7568	37936	A	7622	1	696	
7569	37937	B	7623	1	1014	
7570	37938	B	7624	1	837	

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7571	37939	A	7625	1	2592	MVRKAKWKPLQLPLPRKIVNQ KQHRIPGGTVEISAITKDLKDA GVVIPTTSPFNSPIWSVQKTDGC WRMTVDYCKLTQVMTPIAAV VPDVVSLKQINTYPGTCK\FLG VQWCGACRDI/PSKVKDKLLHL APPTTKKEAQHLVGLFGFWRE HIPHLGVLLQPMYQVTRKAASF EWGLEQEKAQQVQAAVQAA LPFGPYDSADPTVLEMSVADRV AVWSLWQAPIGESQWRPLGLW SKALPFSADNYS PFERRLLACY WALMETEGLTMGHQVTMQPE LPIMNWVLS DPSRHKVGHAQQ HSIIKLK WYICDQARA VPEGTC\ *LNKEVAQMP/MGTTRKWTAA ALQSLSGISLKD SGEGKSSQWT ELQAVHLVVHFAWKEKWPGT WKKHDWKTGDNEIWGRGIWM DCSEWSKTVKIFVSHAHEPSGH GGRDGGYAWAQEHELSTKAD LATGIVECPICQQQRPTLSPRYG TIPQQQT FILTGINTYSIYGFAYP AHNASAKITIRGLTECLIIHHGI PHS/IVSD*GTHFTAKDV\ETRIH RPRNQGV E V E V A P L T I T R S D T L AKFLLPVPTTFRSANLEVLLLE GGTLPPGDPTTIPLNWKLRLPR GHFGLPLPLSQAKKGVSVLA GVTDLDYQDEFSLLLHNRVTA AFPSLLHSSFAYLDNMIEKANK CHVEGVVDHVSDPAQRRECDRH
7572	37940	A	7626	20	238	
7573	37941	A	7627	3	229	
7574	37942	A	7628	1086	1369	ETGMLPLRLLKPFLSDFAGPLH TSIMPTRRFC SKSPT*HTLATAL SQGLS*GT*NEASLTKEKVGKN RCRYSPSYPPSGIREGKAQLCFY THWK

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7575	37943	A	7629	1	1805	MSGRSRGRKSSRAKNRGKGRA KARVRPAPDDAPRDPDPSQYQS LGEDTQAAQVQAGAGWGGLE AAASAQLRLGEEAACRLPLDC GLALRARAAGDHGQAAARPGP GKAASLSERLAADSVFVG TAG TVGRPKNAPRVGNRRGPAGKK APETCSTAGRGPQVIAGGRQKK GAAGENTSVSAGEEKKEERDA GSGPPATEGSM DLE NVQLKLE NMNAQADRAYLRLSRKFGQLR LQHLERRNHLIQNIPGFSGQAF *NHVLLASFLNSQEKEVLSYLN SLEVEELGLARLG YKIKFYFDR NPYFQNKVLIKEYGCGPSGQVV SRSTPIQWLP GHDLQSL SQGNP ENNRSFFGWFSNHSSIESDKIVE INEELWPNPLQFYLLSEGARVE KGKEKEGRQGPGKQPMETTQP GPLSFVWVAVSPSWLPGQQGP QELPVD RGPLPVHETH TYPPQL SRNPTGCQTDGRAGLPVTPCDK KALPCAQCFVSHLLYCMGLQP RQKEKINPEVSSITNVAPKDME KVHAGALDKPMCGRQGKESQ GATHHATPSAISAPSHPLGSSE TLDIDGLAHFLEHSQINPSLLSR VLIQRQHLRHVAVTNG
7576	37944	C	7630	66	206	

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7577	37945	A	7631	3	1643	VQASQAEADQQQTCLKQLQIS\ QLSRL*KQAIELREAVEQHVKV NNDLREKNWKAMEALATVAEQ \ACKEKLHSWTQ\AKEES/ERNQ LCLIEAQTMEALLALLP\ELSVL AQQN\YTE\WLQDLKEKGPTL\ KHPPAPAEPSFGTWAFQV*GEA E\ETQSTICRAEF\DQYRSILGGD GRALLRDLQKSVEEEEQV\WR AKVGAAEEELQKSRVTVKHLE EIVEKLKGELES\SD\QVREHTL HLEAELEKHMAAASAECQNYA LAEVAG\LRQLLLE\SQSRLRPP KNRNPQKTEPMSFALGQASS*V KLKSHVED\GDIAGAPA\SSPEA APQPSRDPRSA*RTQLELDQKPI PWRMRQTTSRQKLHGSPFEA SDLRACSVYKEGFWEKLPHSA APPRSFFRNRREAFTA*RRDLEK RGRSLTSD\LGRARPRRLQELSE RRTQEQLGKGRRTRVKKLQE\Q LAEKAEDGSS\SKEGTSVLSFLFG KKKLLFQLYQNALTHSFTIKPT NLHSVYPGPNFVLREKAHEET SLFRRPQEVRTFPGGPILLNGTC
7578	37946	A	7632	3	247	
7579	37947	A	7633	3	389	GQEFSPKVY/FVNQTMGN/SCG PIGLFNAVANNQDKLGFEY\GP LLNQFLF*NR*KCPPKDRAKCF ER\NEAIRAAH\DAVDKEG\QCR VDDQGEFPFLFCLQNVDGPPSM NLDG\RMPFPRGPMAPSFRRTPT

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7580	37948	A	7634	1506	3135	RGLGGGLAEQELQPWSPERSPV HNN/RM/QEKSLKDLMEKTM AQELRDECTSLSSRFQLEEKV SVMEDEINEMKQEEKVREKRIK RNEQSLQEIWVYVVRPNLHLIG VPESDRENGTKLENTLQDIIQEN FPNLARQANIQEIQRMPQRYS SRRATPRHIVRFTKVEMKEKM LRAAREKEIQTIREYYKHLYT NKLENLEEMDKFLDTYSLPRLN QEEVESLKRPTGSEIGAINSLP TKKSPGPDGFTAIFYQRYKKEL VPFLLKLFQSTEKERILPNSFYE ASIIIPKGRDITTKENFRPISL MNINAKILNKILANQIQQHIEKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTNEKNHMIISIDAEK AFDKIQPFMLKTLNKLIGDGT YLKIVRAIYDKLTANIILNGQKL EAFPLKTGTRQGCPLSPLLFNIV LEVLAIRAIRQEKEIKGIQLGKEQ VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI
7581	37949	B	7635	1	594	
7582	37950	A	7636	434	744	TLACLARLGKFSWIISCRVFSNL VPFSPSLSGTPIRRRFGLNVRT ATRILRFSRDLKKRRITRLYP TGPSEGPTPTESR*LLAQQSEIKLQ GGSEAGGGAPA
7583	37951	A	7637	1	1077	
7584	37952	A	7638	1	348	
7585	37953	A	7639	1	831	
7586	37954	A	7640	275	457	LIAYQPK*AQDYMDSQLNSTRG TKKSC*GRL*GSGVIHIGSMPVP TRTAGPLPFFAGPCR
7587	37955	A	7641	341	504	ILRFSRDLKKRRITRLYP TGPSPRESR*LLAQQSEIKLQGGN EAGGGAPA
7588	37956	B	7642	1	627	
7589	37957	A	7643	121	375	DGQQLIALLHRLALRELQQA VHAGLPQQA KILFDGGSEIGIKIH*L RCAHCPLSSRETCRASCINESAT RGERPFAYWAPGWFFFHQ
7590	37958	A	7644	3	479	
7591	37959	A	7645	382	642	
7592	37960	A	7646	273	1464	

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7593	37961	A	7647	76	1763	IFGITRFLPFIYQKIHIFSKEQLPD LHSHFSDLNLEAHMYASQWFL TLFTAKFPLCMVFHIDLLCEG LNIIHFVALALLKTSKEDLLQA DFEGALKFFRVQLPKRYRAEEN ARRLMEQACNIKVG VYTGTTEL Q*DFSLDSLVSWS DSSCCCGK ASWQDDGRNLHYGSL*RPCFQ PAAR*RLPH*SGGHQQAQVYG TN\KKLKKYEKEYQTMRESQL QQEDPMDRYKFVYL*VTPAVA FILGIFIRS*EKERGKRKWLSTF KNETKRKNGKVLF*LCMSYPQ RLLAGELFQD*HKDVS NPLSV ENVKNTNSLGRKNKNHK\REN RRLQEASMRLEQENDDLAHEL VTSKIALRNDLDQAEDKADVL NKELLLTKQRLVETEEEEKRKQE EETAQLKEVFRKQLEKA EYEIK KTTAIIAEYKQICSQLSTRLEKQ QAASKEELEVVGKMMACKH CSDIFSKEGALKLAATGREDQG IETDDEKDSLKKQLREMELELA QTKLQLVEAKCKIQELEHQRG ALMNEIQAAKNSWFSKTLNSIK TATGTQPLQPAPVTQPPKEST
7594	37962	B	7648	1	618	

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7595	37963	A	7649	1	2375	MAGAPPPASLPPCSLISDCCAIN QRDSVGVPRPSKPGAGYNLVVR RFLSLLEKRSIPVGVTRFSRCRP SPLSLTRKGNSLTPCASRIINMH FQAFWLCLGLLFISINAEFMDD DVETEDFEENSEEIDVNESELSS EIKYKTPQPIGEVYFAETFDSGR LAGWVLSKAKKDDMDEEISY DGRWEIEELKENQVPGDRGLV LKSRAKHHAISAVLAKPFIFAD KPLIVQYEVNFQDGDICGGAYI KLLADTDDLILENFYDKTSYIIM FGPDKCGEDYKLHIFRHKHPK TGVFEEKHAKPPDVLKKFFTD RKTHLYTLVMNPDDTFEVLVD QTVVNKGSLLDVVPIKPPKEI EDPNDKKPEEWDERAKIPDPSA VKPEDCALGLELWSMTSDIYFD NFIICSEKEVADHWAADGWRW KIMIANANKKKHKDTEYKKTDI CIPQTKGVLEQEEKEEKALEK PMDLEEEKQNDGEMLEKEEE SEPEEKSEEEIEIEGQEESENQSN KSGSEDEALAEQPREGPGVPGP IPPKRPSRPIPEPRAAKRLPTQE LRGESYTMSASGTARGPSPKER LGLTTKTGEKEVAQGFCREPL RRPPNAQARDRSSRAPATHRKE LKPEREHISCSRSHIRYQEWVSL RDTVHRNLVLDTKRHPALILVE YKERTSSPATEQSCMENDFDEL REEGFRRSVITNFSELKEDVQT
7596	37964	A	7650	914	2786	
7597	37965	B	7651	1	2369	
7598	37966	A	7652	333	752	MSYVSRYGCGGRKNVATVSKG WAGSLAWPGGFPRKVKGGGS WRPSGGV/DVAAPVRARLALLL SGPIASESPLTTNPHSHSARRPR TYI/GHAPALRVTN/PESFSYWG TRGPSATMACDGLTRTGHSSPS RARSPLLCARSL
7599	37967	A	7653	1	177	RPLPSRPHAAPPGHHTISSGPCG HRKFSPKAGDSNTPRTRSRPRV SCALPPDVRGSWLS*KWNQIW YHTLPQPQENTPKSQENKPKSK PQPTQR*TRGPW/PSSRCRVRSG /THRRPGLFLS*KQ/PSESIGHSR ALSAFTPAEMISTLPPPTSKSPL AARAAPPNG*SPKAGDSNTPR TRSRPRVSCALPPDVRGSWLS

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7600	37968	A	7654	1	1430	MQDTCSEIISPADFPTFSSSLKIR FSTDSPSQIFKKHCICQIVLILLP KNSYTRRLLVSNQMYLESFEH QCRKTHILCKRTAGSGPFCSCPT GQPRHNSSASKCPASERGLCLK/ PKSKREKREPGPVAPAPLHAAP SSPGLGAPQLR*PGRTRSFGRD HVGSPGPPRAGPRLFAPRPVLS RCSANPSGSPHTQSPKQSSTGQI SGRADQVCGCWIRKRGVPGAA RGSPGCARTCHSRGHPHAAPFP QCNSLAPSAPAGLWRTQNAGP SG/HAQPSCPPPVL*PPHPHP*G LSFSSCSRSWVPNTTP/EPREGE GQVPGRRAASAPGASFAPGT/P RAPQPLPHFPVAQSPAAVAA SSECKREAARRSPGASALHLPP KSARPRQAPCPTLTDGGHIFPAS AARP*HKGHQTAEGKNPGRAD TSTSPFATFPFISGGEEKSRSPVL PERTRQREEAPGPPSSPLRGLW LTFWFVFL
7601	37969	A	7655	1	609	
7602	37970	A	7656	3	649	AKD/ELHIVEQGHDIRGRSIIK/ LATLKMS/VQPTFS/LGGFEIQPT VV*GLKCVSGPCHISGQHLVA/ VEEDAEESEEEEEENVKLLSISER RSAPGVVSMVPQKKVK\LAAD EDDDDDDEEDDDDDDDDDFD DEEAEEKAPVKKSIRDTPAKNA QKSNQNGK\DSNPYSHPRSQG\ QDPFRKQEK\PKTPKGPSSVE DIKAKMQASIGKKRIEVLGTY
7603	37971	A	7657	1	1013	PWCDSVLRGCSLEQSFISVRL SYLSACRHPMEDSMDMDMSPL RPQNYLFGCELKADKDYHFKV DNDENEHQLSLRTVSLGAGAK DELHIVEAEAMNYEGSPIKVT\ ATLKMSVQPTVSLGG\FEITPPV V\RLKCGSGPVHISGQHLVA\ EEDAEESEEEEEEDVK\LLSISGK RSAP\GGG\SKVPQKSKTCML MKDDDD\DEED\DEDD\DDD DF\DEE\AEKAPSERNLRYRDT PS/AKNAQKSNQNGK\D\SKPSS TPR\SKGTRIPSKKQEKTPKTPK\ GPSSVEDIKAKMQASIEK\GGSL PKVETKFINYVKN\CSRMT\DQE AI\QDLW\QWRKSL

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7604	37972	A	7658	9	271	GRVCKALWHSWHTARVLCIN STTTITASCNP/RHTARRSLTTP *MCRLNWTKNLLFNPGVPVL VMSLLFIASVFMLHIWGKYTRS
7605	37973	C	7659	189	500	
7606	37974	A	7660	5	291	ATPSPSPPG/VPT*RPELLGPRR ERLLGPEGS/PGGGALPGVPPSR FVRTASSTLFLPPSPRPAFPSSIP LVPSPPRHCARSRETWPRTLRI SAP
7607	37975	A	7661	1	431	LALQFSFLQNRQGLNLLIAEKG RLCIFLNEECCFYLNQSGLVYD NIKKLKDRVQKLANQANNYAE PPWALS\NWMSWVLPILSPLIPV FLLLLFGPCVFCLVSQFIQNRQ AIANNI*QMLLLTTPQYQPLPQ NLSSVESLPL
7608	37976	B	7662	41	1547	
7609	37977	B	7663	74	298	
7610	37978	A	7664	3	647	ELWTRGPRKRQNGSSKPLWLL YGESGAQKSVVEVTKPRLLWP QWIQHRARRPCLQQAPCSRRPH APAS\LPPSSPTARDTKHRAQV KTTDSGARRRDGRVLGVLEVS RSIADGQYKRCG\VTSPD\IRR C\QLTPQ*PGSILLACDGLF\KVF TPEEAVNFIL\SCLEDEKIQTREG KSAADVR\YEAA\CNMLANKA VAAGARPDNVTV\MVVVR\IGH
7611	37979	B	7665	1	1302	
7612	37980	A	7666	3	1268	SCARVAAWGGKLRRLAVSRQ AVRSPGLAAA VAGAALAGAG AAWHHSRVSAARDGSFTVSA QKNVEHGIIYIGKPSLRKQRFM QFSSLEHEGEYYMTPRD\FLFSV MFEQMERK\IQSRS*QKRFIEDT LSGIPTAGCGSSFFQRPWAIKGL \SYNRVIFFFALQSSLNPFGFH VAFKMLDTDGNEMIEKK/ENFL SCRRS*VNKMT*LTVKTNETWI SGSNK*KNLKL/DTTLQMRFFG KRGPRKLHYKEFRF\WENLQT EIQGN/VEFLQFSKGLSFMKR TLQSGYFFSTNTENKDIYWKNV REKLSAGESISLDEVKAFCHCT RQIGTLCY/SAMQMFTLAHRPV RLAEFKRAVKVATGQELSNNIL DTVFKIFDLGDDECLSHEEFLG VLKNRMHRGLVGTSTSEYTRIL EVCEERKH

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7613	37981	A	7667	2	342	QNRGPGRIT*DFLPNS/VGEKILS FCNCSLGSIGALGPACCRVLSEL SEEQVFHVNYLDVEELSLSLRLC QCLVELSFQLATAYHGSATTRE AARGEAACRAHLMFWCLCIWQ FCRL
7614	37982	A	7668	1	1166	VGCVLGRVEAAVTVAPAGTEE GMSEEEQSGSTTTGCGLPISIEQ MLAANPGKTPISLLQEYGRIG KTPVYDLLKAEGQAHQPNFTF RVTVGDTSTGQGPSKKAACH KAAEVALKHLKGGSMLEPALE DSSSFPLDSSLPEDIPVFTAAA AATPVPSVVLTRSPAMELQPPV SPQQSECNPVGALQELVVQKG WRLPEYTVTQESGPAHRKEFT MTCRVERFIEIGSGTSKKLAKR NAAKMLLRVHTVPLDARDG NEVEPDDDHFSIGVGFRLLDVL QNRGPGCTWDSLRSVGEKILS LRSCSLGSLGALGPACCRVLSE LSEEQAFHVSYLDIEELSLSLGLC QCLVELSTQPATVCHGSATTRE AARGEAAARRALQYLKIMAGSK
7615	37983	A	7669	2	328	
7616	37984	A	7670	181	1271	LEASLDQH*ASVHSFRSHIHVIS RTHRK\SQRDPSELDAEHAQKV LEMEHTQQMKLKERQKFEEA FQQDMEQQYLSTGYLQIAERR GEWGLGLLVWGLTGCAGCHD SSWGLVRWYKCYSFKFVDEPC LQFERNCKPIGSMSSMEVNVD MLEQMDLMDISDQEALDVFLN SGGEENTVLSPALGRVDKLALA EPGQYRCHSPPKLQQWCGSVM NSSQRFDMLHSGNFEIHLSTLL VVKDWRLQGGADSPAGLTGNS SLFVRQAFRGVPAMGKAMGSS QVLQAPGPESSTCQNEITLQVP NPSELRAKPPSSSTCTDSATRD ISEGGESPVVQSDEEEVQVDTA LATSHTDREATPDGGEDSDS

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7617	37985	A	7671	60	965	Q R G V G G V G P R G R Q R Q Q P E A * G E E T V A A A A M L E T L R E R L L S V Q Q D F T S G L K T L S D K S R E A K V K S K P R T V P F L P K Y S A G L E L L S R Y E D T W A A L H R R A K D C A S A G E L V D S E V V M L S A H W E K K K T S L V E L Q E Q L Q Q L P A L I A D L E S M T A N L T H L E A S F E E V E N N L L H L E D L C G Q C E L K R C K H M Q S Q Q L E N Y K K N K R K E L E T F K A E L D A E H A Q K V L E M E H T Q Q M K L K E R Q K F F E E A F Q Q D M E Q Y L S T G Y L Q I A E R R E P I G S M S S M E V N V D M L E Q M D L M D I S D Q E A L D G L P E L W R R R E H C A V P
7618	37986	A	7672	1	124	
7619	37987	A	7673	3416	3920	C C L I K N D I K E K L H Y S D C R L N V G Q P C I L P R N A F E F D L L I F Y L G N L H F Y I S E I G L L G Y C T F F F F F F E M E S C S L T Q A G V Q * C N L G P L Q P L P P G L E * F / S C L S L P S S W D Y R H V P P H W L I F V F L V E M G F C Y V G Q A G L E F L T S G D P P T S A S Q S A R I T G V S H H A Q P G Y C I L I L G F C
7620	37988	A	7674	1	387	

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7621	37989	A	7675	1	1827	MKKVGGRVFWAKERASAEAL RHELAGLLKKCKGSAADADQG GLGQGCRRHSKRWEGFTRGAS RAARLGNEEQDAASAGPGPNG CGHLGAEEPSAAAASGMDQCVT VERELEKVLHKFSGYGQLCER GLEELIDYTGGLKHEILQSHETC LSVVLLSLPMVMAGSGNLKVL QLCRFLHMKTTGGEMNYGFHLA HHM\ALGTSIFGEEGRYSL\STS NSSIAALLCALYPHPGFTALD NRYHLQ\ALR\HLYVL\AAEPRA FLVPVGCGTQTRPCY\ALLGSLP YKGTQWY\EQTKED\LMAPTLL PELHLLKQIKVKGPYRWELLID LSKGTQHLKSILSK\DGVLVYVK LRAGQLSYKEDPMGWQSLLAQ TVANRNSEARAFKPETISAFTSD PALLSFAEYFCKPTVNMGQKQ E\ILD\FS\SVLYECVYPRET\PE ML\PAYIAMDQLIRRLGEREMS ETSELW\QIKLVLEFFSSRSHQE RLQNPPLKRGALLMELGNSPPF CKCT\INNTL\DTW\LQVRGDIC VNAYLTGQPL\EESQL\ADMLACF LVFHFVPSSTALPTL*D*KGS'TS FA\ELLFKFKASLKMPSAELCLR LAPLPSLEIPQPNGDVTVSGGEP
7622	37990	B	7676	374	515	
7623	37991	A	7677	102	1237	HSHRAACPDNRLVPGASR*HY LHRCRSRHSSS/NIGKNI/HSLRA GAVNNQSRPQSHSSGEFSLLHD HEAWSSSGSSPIQYLKRQTRSSP VLQHKISETLESRRHHKIKTGSPG SEVVTLQQFLEESNKLTSVQIKS SSQENLLDEVMS\LSVSSDFLG KDKPVSCGLARSVSGKTPGDFY DRRTTKPEFLRPGPRKTEDTYFI SSAGKPTPGTQGKIKLVKESSL RQSKDSNPYATLPRASSVISTAE GTTRRTSIHDFLT\KDSRLPISVD SPPAAADSNTTAAASSEYHLHQ WSSHILDIPHTHTIGSCAQNDLAI DMPEPLYAQARNRSTGRSHFL NQTFATIRMPSDAFGMLAKDK HRTIYCGPFISAILPEYRIS

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7624	37992	A	7678	1256	1971	HNCALHADSTMRGKAPLFRPT YKLMEQLLLRIFRWISQKCQNV EVTICWF/CTCTYSGWVEAYP TRTEKPYKKGKNDPSC TKGQC NP LELVITNPLNPHWKKGERVT LGIDRARLDPRVNILVRGGEVY ERSPEPVFQTFYDELNVPVPEIP GKTRNLFLQLAECVAQPLNVT CYVCGGTVTGYQWPWKAREL VPVDPVPDEFLAQKNYPDNFW VLKPSITGQYCIAREGKKFTHP
7625	37993	A	7679	1	1710	
7626	37994	A	7680	1	561	
7627	37995	B	7681	1	642	
7628	37996	A	7682	2	611	
7629	37997	A	7683	1	1718	MLSIQSTHAEKELENFFQNTED WYFHTSHHLSSLRFFSARESN SMKLYEEAYMERYRDFLPATM WSAHTVDVPGQATWIKQKSE KDPVHLQKGKNGPSC TKGQC PLELVITNPLDPCWKKEERVTL GIDGAGLDPQVHILVRGEVYKH SPEPVFQTFDELNVPVPEIPGK TRNLFLQLA WHVAQCLNVTSC YVCGRTIIGDQWPQEAQELVPT DPVPDEFLAQKNHPDNFWVLK A\SIIGQYCIAREGKEFTHPIG*L SCRRQKLYNGTTKTIT/W/RGSS NHTERNPFKFPKLQTVWTHLG VP\RAWEQPPLGFLGYVRAWS LLTGLLDHWAGSCCLLGTIKPS FFPTAP*KQGKLLGFPVYASRE KRIIAIENWKDDEWPPERIIQY YGPVTWAQDGLWGYQTPIYVL NRIIRLQAALIEITDKISRALTIL AWQETQMRNAISQNRALDYL LAAEGGVYGKFNL TNCLLHVD DQGQVVEDIVRDRTKLAHVPV QVWHEFDPGAMFGK WFPALG GFKTLIIGVLIVIGTCLLLPCLLP VLLQMIKSFIATLVHQNASAAQV
7630	37998	A	7684	3	406	TLISFIYPAQNPPELLNKLSQRKT TVLAMDQVPRVTIAQGYDALS SMANIAG/YLIVGGGVAGLASA GAAKSMGAIVRGFDTRAAALE QFKSLGAEPLEVDLKESGEGQG GYAKEMSKEFIEAEMKLFAQQ CKEVDI
7631	37999	A	7685	1	236	
7632	38000	A	7686	1	978	
7633	38001	C	7687	415	453	

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7634	38002	A	7688	3	408	
7635	38003	B	7689	1	2137	
7636	38004	A	7690	112	3688	GNWGARKLGTHINMANLLKTV ATGCSCPLLNNLGSCGRLRVK KDFLRTFYTHQELWCKAPVKP GIPYKQLTVGVPKEIFQNEKRV ALSPAGVQNLVKQGFNVVVS GAGEASKFSDDHYRVAGAIIQ GAKEVLASDLVVKVRAPMVNP TLGVHEADLLKTSGLTISFIYPA QNPELLNKLSQRKTTVLAMDQ VPRVTIAQGYDALSSMANIAGY KAVVLAANHFGFRFTTGQITAA GKVPPAKILIVGGGVAGLAS
7637	38005	A	7691	2	288	EFPATIQSNRARGAKPGRRVDR GPQARCFDVGCGPRSPSNGLR NSEPSP*GR/CGRSPVSPALSSSR DVNLPCM LSSGTD SGACSEVLV GTL YRPL
7638	38006	A	7692	54	522	RFHMSSLSASPPPRRLWTQMNT QCLVFSASHLPRCQEMLFQGT *EKPHSPRCFSPA KPRPAGAPA ASHKCR/CTP*PGPPSEPTV/PSD KAPLVGNAESQRVASPSGPPAP CSPV\GWPGTYKAIPASGT VAP TPLSAGTTDMTRLCPLSLEFL ND
7639	38007	A	7693	3	57	RAGAGRSERAVAEES*GGLSGS CGRHNPGQSR LQRRPSQDVELE DCCRG C*SGSLWLRTL RPKRPA PFGGFSVPASSAASIPTGSAVVQ PGPLPGPTGKSPVFAGSGPSSN PQPAFS\NMRTD GSKPGSA/SF APLTPPLEPPAGLRAPSSGV SPL LPATIQSNRARARSPGDA*AAP PRPGVLTSAVPLPRRVT/CLRNS RAFAPAVRTNAVTP*PGGVSGP SQRRAEAA
7640	38008	A	7694	3	237	
7641	38009	A	7695	114	186	

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7642	38010	A	7696	73	904	FGGFLANLSYQEALSDTQVAIV NILSSTSGLFTLILAAVFPSNSGD RFTLS*ELLAVILSIGGVGLVNL AGSEKPAGRDTVGSISLAGA MLYAVYIVMIKRKVDREDKLD IPMF\FGFAGLFNLLLLWPGFFL LHYTGFEDEFPNKVVLMMCIIN GLIGTVLSE\FLWLWGCFLTSSL IGTLALSLTIPLSIADMCMQKV QFSWLFFAGAI PVFFSFFIVTLL CHYNNWDPVMVGIRRI FAFICR KHRIQRPEDSEQCESLISMHSV SQEDGAS
7643	38011	A	7697	1	308	
7644	38012	A	7698	3	397	
7645	38013	B	7699	1	963	
7646	38014	A	7700	3	1433	KIRVTSKALELGKAQGQTGTD GSGRGWGRPNSSGKGEHFYYN ISE*VGGGASRSGAGPRRWRRG PRMLQITNASLGLRFRRQLLYW FL*GPSTLRGVESGGGLEVLW GSRDPAGRMKVS NVSCQASVS RMHAAFGGTFK*APAPTPAHPF RAPQLICLAQVWAATGRRVAR VGMLSL*EGPGELVAGESGCA AVMQHLRAGPFRALLFTSNLD MDFRVSLGWCMTSDFLTRPL SLLSLQEEERMVYVAFSEFFFD SAMESYFRAGALQLLVGDKV CHGLFVGWAREGL*QSSLPHC AGGGRDRATCTPVRPRRGAAIK PSGTTISVTASVTIALVPPDQPE VQLSSMTMVRVPEWGLLAGG QGKMGCGLLSR*AGALPCTSVI GGQSHLSTGMGWAGFVRS*PS PSPRKA/RGVRMEEER\GVNWA GPD*ATNHAVSGGRMGKEGGP SPLSIAPQCHRPADVRASTAPT
7647	38015	A	7701	2	391	MALRGKALRTTDLRRFRIYSN HSATWKS LA/L*IPLQAPLK\TM LPELG*MPQCSNERT\WRG\VQ DPHYPEGIKLCAMKVVTNPCI PSPIGA*SPTFAKGLREVIEKNR PADVRAS\TAPTPSHSSCLSP
7648	38016	A	7702	1	189	
7649	38017	A	7703	202	455	KCDILPTALDSIIH/SSHRVHLA HSPHSLQ**HPHPLAQPSQQDRP SVPL**MSLADPESHLSHSHF HL*PACRV*AYDLLPL
7650	38018	A	7704	313	378	

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7651	38019	A	7705	126	1246	PNGLRPPCPSPASETPGNAPVCD PGSSSQGAQGLNAAWWAPGM A/ASRSLHSLHPVR/RACALPAQ SLLGPLRSFRCHLSDPVFRGTGAP PGQGSWQYKVLVHAQERELTQ LREKLREGRDASRLNEHLQAL LTPDEPKSQGQDLQEQLAEGC RLAQHLVQKLSPENDNDDDED VQVELAEKVQKSSAPREMOKA EEKEVPEDSQEECAITYSNSHGP YDSNQPHRKTITFEEDKVDST LIGSSSHVEWEDAV/HHYSRK* K***GRGRKRASVSQKPEETPS\ PRPEPPPRGSGEAERSVGSWDA SSRSLRRLHPLREPVTLP SRFR GRCGASAAIFGSCVPHGGSTRA GMMGSKEVGKGGDPGEETSPV ALFS
7652	38020	A	7706	3	5665	LLEKLRQRIHDKAVALERAIDE KFSALEEKEKELRQLRLAVRER DHDLERLRDVLSSNEATMQSM ESLLRAKGLEVEQLSTTCQNLQ WLKEEMETKFSRWQKEQESI IQ QLQTSLHDRNKEVEDLSATLLC KLGPGQSEIAEELCQRLQRKER MLQDLLSDRNKQVLEHEMEIQ GLLQSVSTREQESQAAAEKLVQ ALMERNSELQALRQYLGG RDS LMSQAPISNQAEVTP TGR LGK QTDQGSMQIPSRDDST
7653	38021	B	7707	1	1098	
7654	38022	A	7708	193	5850	HCQRNTTGEHCEKCLDGYMIK S*DSLFGDVWN*LPIFASNFSFA EL*K*GFVRDYHK*TFVCS/CLL NP*GPEFVGKKIKRKNHDAK YLN V*YS/CFRCAPGYYG NPLLI GSTCKKCDSCGNSDPNLIFEDC DEVTGQCRNCLRNTPGKYCHIL SIKKCISRLFLFP TVCNCGGGP CELH*EQNFWFKNYFNSRHPLP QTDVSWCSAKTACL*HAFDL*F *RNVSPPGCDKCVWDLTDALR LAALSIEEGKSG

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7655	38023	A	7709	1	713	TPCFESPN/ETGTYFSTKAGYVL LN/ESSN/IGIEFEIAFKVRPRSSS GTLVHGHSVNGEYLVNHMKN GQVIVKVNNGIRDISTS\TPKQ SLCDGRWHRIT\VIDRSDNVVQL DVDSEVN\HVVGPLGIQKPIDH REPVL\VGGVPRILY*HPRFCPP QNPFTG\CIR\HFVIDGPPQWSFQ VKAAPGQAGARKASNSLSQQP GHGQKHSCPKYKVPLRALEKE HKASPGGTVTLSFGVGSFSSS
7656	38024	A	7710	3	322	DGVSHCRPGWSAVA*SQLTAT STSWVQMIACFTLPSSWDYRCT PPCLTNFCVCIFSRDRVWAMLA GWLKNS*PQAIRPPQPPKVLGI TGHEPRAPGQKILTFHILT
7657	38025	A	7711	2	480	YSPPECPCGKIEEHSEDMETH VKT KHANLLDIPLED CDQPLYD CPMCGLIC TNYHILQE HVDLHL EEN\TFSKAWIESSVLVIYNWLT SFSKKKTERGD/PEESRQEIEEF QKLQRQYGLDNSGGYKQQQLR NMEIEVNRGRMPPEFHRKA DMMESLA
7658	38026	A	7712	187	468	
7659	38027	A	7713	1	1110	MHCIETGVERRILGLLLFRGSLA SVIRPGEVLDAHALVCQRGPK GKPSGAQCGSCWPLGRPKALT QLVPASFVCLACAFGAERLGDS ALRSSDLTHLLVNTMLSCNIC GETVTSEPDMAHLIVHMESEH CPFCKLSGVNYDEMCFHIEAH FEQNTLERNFERINTVQYGTSD NKKDNTLQCGMEVNSSILSGC ASNHPKNSAQNLTKDSTLKHE GFYSENLTESRKFLKSREKQSSL TEIKGSVYETTYSPPECPCGKI EEHSEDMETHVKT KHANLLDIP LEGMDRVQCSGDLQLAHQLQQ EEDRKRSESRQEIEEFQKLQR QYGLDNSGGYKQ\NNYEIWR* K*IGEECLHLNFIGEKLI
7660	38028	A	7714	2	303	
7661	38029	A	7715	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSRWPWF G
7662	38030	A	7716	229	359	MKWVYCSVTGMGKGQHRMP SKG*GWVQRYNRDGIPSPRVLE LF

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7663	38031	A	7717	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEGI REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQP\APTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRIYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
7664	38032	B	7718	1	1196	
7665	38033	B	7719	184	1689	
7666	38034	A	7720	228	407	
7667	38035	A	7721	1	725	MQRGALSPVLMLSAAPEPPRP PPGLSPPGSGPGSGSRHGSARPG PTPEPSGSLGAALDSSLRAAVA FKAEGQRCYREKKFREAIKGY HRALLQLKAA/LGGPP*RPARP RPPGPTSSPGPARLSEEQRRLVE STEVECYDSSPA\CLLQSELVNY ERVREYCLKVLEKQQGNFRPP YRAG\IAFYPLGDYARALRFLQ EAPSREPPDTNVLRYI\QLTQLK MNRCSLQREDSGAGSQTRDVI
7668	38036	A	7722	1	262	NGKEPGRYTFEDAQEHYKLM KSDSYPRFIRTSAYQELLQAKK KGRNIPFPCHKNCTPTLRASN LL*KEGKSLTSKRLTSLAQSY
7669	38037	A	7723	1	1392	

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7670	38038	A	7724	1	1544	MAQGNNGQTSNGVADESPN MLVYRKMEDVIARMQDEKNGI PIRTVKSFLSKIPSVFSGSDIVQ WLIKNLTIEDPVEALHLGTLMA AHGYFFPISDHVLTLDGTFY RFQTPYFWPSNCWEPENTDYA VYLCKRTMQNK\ARL\ELADYE AESWA/RGLQRAFAPKW\EFIF MQAGAAKVDKKRDKIERKIL DSQERAFWDVHRPVPVCVNTT EVDIKSSRMNRNPHKTRKSVY GLQNDIRSHSPHTPTPETKPPT EDELQQQIKYWQIQLDHRHLK MSKVADSLLSYTEQYLEYDPFL LPPDPSNPWLSDDTTFWLEVA SKEPSQQRVKRWGFWAWDEGI GKTQLGRRNSFLKIF*EFRISGS GNFKVLGWASGRTLKKRPF\KE VPSRVQEIWQEFAPGAPSAINL DSKSYDKTTQNVKEPGRYTFE DAQEHYKLMKSDSYPRFIRSS AYQELLQAKKKGKSLTSKRLTS LAQSYLNGSSCSMNADWSHCT HFVAQCCDLEQRTLEQDVA
7671	38039	C	7725	81	439	
7672	38040	A	7726	531	686	GWQWLHRPPGATQHCGGNLP AEESLPARATN*ARPAATHRGG RGQDLPPGG
7673	38041	A	7727	93	428	LHCQVHLSLIDLPLL\SFLLLLF *D*VSLLLPRLECSGAISSHCSL H/LGPGSRDSPASAS*VAGITGT CHHVQLIFVFLLETGFHRVSQD GLDLL/NLVIRLPRPPKVLGLQA
7674	38042	B	7728	99	425	
7675	38043	A	7729	35	861	
7676	38044	B	7730	141	586	
7677	38045	A	7731	116	926	AEIVAQEVSEEGGKSRKGPQFG KSQYQELIRRSECGLNRGEGESI KANMQQVIYIFPITLAEVVL RP HSYPSKKTGLTLAAASIA YISR *EWLYFETGTWVYPVFAKLSLL GLAAFFSLSYVFIAS IYLLGEKL NHWKWVSVRNSTLILYIRMAK SHTQSPTSLAHMPFCSIKIEMAE VPSSAQSMNWCEKLLVFPPR*C CFLRPRDSVSPPVFAWFILMHF NTRLFQEAFFGQPQILQRWRLE SVGICFQWPDWKS PAKHQLVK

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7678	38046	A	7732	32	394	GKAVLPIMRETLGDFHYQIHCC PDLPGTDLGHPGSPDLGEVKFL SQT*EVTSLVSGKVWR*WTAI CTHTSQSLISLL\FCLRSASATS LTLSHCVNVVKGLLDFKKRRG HSIGGAPEQR
7679	38047	A	7733	1	765	
7680	38048	A	7734	3	1295	QARVSQELKKAARKRTVSISEGP DTLGDGMRRERRETLALAPEPEP LEKEACEKWKRPFRSASATSLT LSHCVDVVKALLDFKKRRGHSI GGAPEQRYQIIPVCVAARLPTR AQDVLDAHLSEVQCCSFPGNS SLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDPDF G/SNQVLAATYNQAAQLWKVG EAQSKETLSGHKDKVTAAKFK LTRHQAVTGSRDRTVKEWDL GRAYFSR\TIQCSFSYCNDVVCG DHIIISGHNDQKIRFWDSRGPHC TQVIPVQGRVTSLSLSDQLHL LSCSRDNTLKVIDLRVSN\TARG FRADGFKCGSDWTKAVFSPDR SYALATLPVMGPF*IWECGTPG KNWKKQELTGTPIALPVQTPW PWCLLPGSPHGETWTQGRKGC AFGSRAHDLPALGWRLPEA
7681	38049	A	7735	123	463	DVEVGLISQLQDCELGCGIPLK VFPAVFRLPLSLHTFLPLSRT LASGGDGATSASCCRCPGAVSI S*L*QTVASP*VLVHVHRSKET GKTARAIRDMCLEKDTLGLFLR
7682	38050	A	7736	1	489	
7683	38051	A	7737	1	423	
7684	38052	B	7738	1	900	
7685	38053	A	7739	1	1824	
7686	38054	B	7740	400	969	
7687	38055	A	7741	3	4781	EISATQIIVCTPEKWDIITRKGGE RTYTQLVRLIILDEIHLHDDR PVLEALVARAIRNIEMTQEDVR LIGLSATLPNYEDVATFLRVDP AKVLFFYFDNSFRPVPLEQTYVG ITEKKAIKRFQIMNEIVYEKIME HAGK\NQVLVHVHRSKETGKT ARAIRDMCLEKDTLGLFLREGS ASTEVLRTAEQCKNL*LKDLL PYGFAIHHAGMTRVDRTLVED LFA\DKHIQVLVSTATLAWGVN LP*HTALFK
7688	38056	A	7742	2	518	